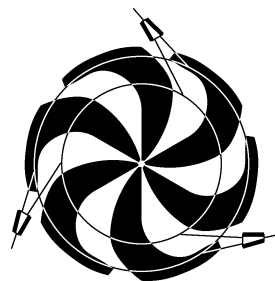


TRIUMF



ANNUAL REPORT SCIENTIFIC ACTIVITIES 2005

ISSN 1492-417X

**CANADA'S NATIONAL LABORATORY
FOR PARTICLE AND NUCLEAR PHYSICS**

OPERATED AS A JOINT VENTURE

MEMBERS:

THE UNIVERSITY OF ALBERTA
THE UNIVERSITY OF BRITISH COLUMBIA
CARLETON UNIVERSITY
SIMON FRASER UNIVERSITY
THE UNIVERSITY OF TORONTO
THE UNIVERSITY OF VICTORIA

ASSOCIATE MEMBERS:

THE UNIVERSITY OF GUELPH
THE UNIVERSITY OF MANITOBA
McMASTER UNIVERSITY
L'UNIVERSITÉ DE MONTRÉAL
QUEEN'S UNIVERSITY
THE UNIVERSITY OF REGINA
SAINT MARY'S UNIVERSITY

UNDER A CONTRIBUTION FROM THE
NATIONAL RESEARCH COUNCIL OF CANADA

DECEMBER 2006

The contributions on individual experiments in this report are outlines intended to demonstrate the extent of scientific activity at TRIUMF during the past year. The outlines are not publications and often contain preliminary results not intended, or not yet ready, for publication. Material from these reports should not be reproduced or quoted without permission from the authors.

EXPERIMENT PROPOSALS

The following lists experiment proposals received up to the end of 2005 (missing numbers cover proposals that have been withdrawn or replaced by later versions, rejected, or combined with another proposal). Experiments 1–699 are omitted from this listing (except for those reporting results in this Annual Report). Please refer to the 1999 Annual Report or see <http://www.triumf.ca/annrep/experiments.html> for a full listing of these earlier experiments. Page numbers are given for those experiments which are included in this Annual Report.

Page

614. TWIST - precise measurement of the ρ , δ and $(\mathcal{P}_\mu\xi)$ parameters in muon decay [active], R. Bayes, Y. Davydov, J. Doornbos, W. Faszler, M.C. Fujiwara, D.R. Gill, P. Gumplinger, R.S. Henderson, A. Hillairet, J. Hu, J.A. Macdonald*, G. Marshall, R.E. Mischke, M. Nozar, K. Olchanski, A. Olin, R. Openshaw, T.A. Porcelli, J.-M. Poutissou, R. Poutissou, G. Sheffer, W. Shin (*TRIUMF*), A. Gaponenko, P. Kitching, R.P. MacDonald, M. Quraan, N. Rodning*, J. Schaapman, G.M. Stinson (*U. Alberta*), J. Bueno, M. Hasinoff, B. Jamieson (*UBC*), P. Depommier (*U. Montréal*), E.L. Mathie, R. Tacik (*U. Regina*), V. Selivanov, V. Torokhov (*Kurchatov Inst.*) C.A. Gagliardi, J.R. Musser, R.E. Tribble, M.A. Vasiliev (*Texas A&M U.*), D.D. Koetke, P. Nord, T.D.S. Stanislaus (*Valparaiso U.*)
700. Measuring cross sections of long-lived radionuclides produced by 200-500 MeV protons in elements found in meteorites and lunar rocks [completed], J. Vincent (*TRIUMF*), J.M. Sisterson (*Harvard U.*), K. Kim (*San Jose State U.*), A.J.T. Jull (*U. Arizona*), M.W. Caffee (*Lawrence Livermore Nat. Lab*), R.C. Reedy (*Los Alamos Nat. Lab*)
702. Measurement of kaon-nucleon elastic scattering at 16 MeV [active], G.A. Beer, P. Knowles, G.R. Mason, A. Olin, L.P. Robertson (*U. Victoria*), P. Amaudruz, D.R. Gill, G. Smith, S. Yen (*TRIUMF*), L. Lee (*U. Manitoba*), G. Tagliente (*UBC*)
703. Study of the decay $\pi^+ \rightarrow e^+\nu$ phase I – lifetime measurement of the pion [completed], D.A. Bryman, T. Numao, A. Olin (*TRIUMF*)
704. Charge symmetry breaking in $np \rightarrow d\pi^0$ close to threshold [completed], R. Abegg*, P.W. Green, D.A. Hutcheon (*TRIUMF-U. Alberta*), L.G. Greeniaus (*U. Alberta-TRIUMF*), R.W. Finlay, A.K. Opper, S.D. Reitzner (*Ohio U.*), E. Korkmaz, T.A. Porcelli (*UNBC*), J.A. Niskanen (*U. Helsinki*), P. Walden (*TRIUMF-UBC*), S. Yen (*TRIUMF*), C.A. Davis (*TRIUMF-U. Manitoba*), D.V. Jordan (*Ohio U.-U. Alberta*), E. Auld (*UBC*)
705. Development of modular gas microstrip chambers as in-target tracking devices for an experiment to detect $\Lambda\Lambda$ hypernuclei at the BNL AGS (BNL885) [completed data-taking], C.A. Davis (*TRIUMF-U. Manitoba*), B. Bassalleck, R. Stotzer (*U. New Mexico*), A.R. Berdoz, A. Biglan, D.S. Carman, G.B. Franklin, P. Khaustov, P. Koran, R. Magahiz, R. McCrady, C.A. Meyer, K. Paschke, B. Quinn, R.A. Schumacher, (*Carnegie-Mellon U.*), J. Birchall, L. Gan, M.R. Landry, L. Lee, S.A. Page, W.D. Ramsay, W.T.H. van Oers (*U. Manitoba*), T. Bürger, H. Fischer, J. Franz, H. Schmitt (*U. Freiburg*), D.E. Alburger, R.E. Chrien, M. May, P.H. Pile, A. Rusek, R. Sawafta, R. Sutter (*Brookhaven Nat. Lab*), A. Ichikawa, K. Imai, Y. Kondo, K. Yamamoto, M. Yosoi (*Kyoto U.*), F. Takeuchi (*Kyoto Sangyo U.*), V.J. Zeps (*U. Kentucky*), P.D. Barnes, F. Merrill (*Los Alamos Nat. Lab*), V.J. Zeps (*U. Kentucky*), T. Iijima (*KEK*), J. Lowe (*U. Birmingham*)
706. μ SR studies of spin fluctuations in CePt₂Sn₂ and other Kondo spin systems [completed], A. Keren, K. Kojima, G.M. Luke, Y.J. Uemura, W.D. Wu (*Columbia U.*), K. Andres, G.M. Kalvius (*Tech. U. Munich*), H. Fujii, G. Nakamoto, T. Takabatake, H. Tanaka (*Hiroshima U.*), M. Ishikawa (*ISSP U. Tokyo*), B. Andraka (*U. Florida*), D.L. Cox (*Ohio State U.*)
707. μ SR measurements on two-dimensional site-diluted antiferromagnets [active], K. Kojima (*Columbia U.-U. Tokyo*), A. Keren, G.M. Luke, Y.J. Uemura, W.D. Wu (*Columbia U.*), H. Ikeda (*KEK-KENS*), R.J. Birgeneau (*MIT*), K. Nagamine (*U. Tokyo*)
708. The spin relaxation and chemical reactivity of muonium-substituted organic radicals in the gas phase [completed], D.G. Fleming, J.J. Pan, M. Shelley (*UBC*), D.J. Arseneau (*TRIUMF-UBC*), M. Senba (*TRIUMF*), J.C. Brodovitch, P.W. Percival (*SFU*), H. Dilger, E. Roduner (*U. Zürich*), S.F.J. Cox (*Rutherford Appleton Lab*)
709. $^{90,92,94,96}\text{Zr}(n,p)^{90,92,94,96}\text{Y}$ reaction at 200 MeV [completed data-taking], A.G. Ling, P.L. Walden (*TRIUMF*), J. Rapaport (*Ohio U.*), D.A. Cooper, D.L. Prout, E.R. Sugarbaker (*Ohio State U.*), M. Halbert (*Oak Ridge Nat. Lab*), D. Mercer (*U. Colorado*), J. Campbell (*U. Manitoba-TRIUMF*), M. Hartig (*U. Muenster*)
710. Dynamics of muonium in Ge and GaAs [completed], R.L. Lichti (*Texas Tech. U.*), S.F.J. Cox (*Rutherford Appleton Lab*), R.F. Kiefl (*UBC*), K.H. Chow (*Lehigh U.*), T.L. Estle (*Rice U.*), B. Hitti (*TRIUMF*), E.A. Davis (*Leicester U.*), C.R. Schwab (*CNRS, Strasbourg*)

5

712. μ SR study of superconducting spin glasses [completed], V. McMullen, D.R. Noakes, C.E. Stronach (*Virginia State U.*), E.J. Ansaldo (*U. Saskatchewan*), J.H. Brewer (*UBC*), G. Cao, J.E. Crow (*NHMFL*), S. McCall (*Florida State U.–NHMFL*)
713. Muonium chemistry in supercritical water [completed], B. Addison-Jones, J.-C. Brodovitch, K. Ghandi, I. McKenzie, P. Percival (*SFU*), J. Schüth (*U. Bonn*)
714. Atomic PNC in francium: preparations [inactive], J.A. Behr, L. Buchmann, M. Dombisky, P. Jackson, C.D.P. Levy (*TRIUMF*), J.M. D’Auria, P. Dubé, A. Gorelov, D. Melconian, T. Swanson, M. Trinczek (*SFU*), O. Häusser* (*SFU–TRIUMF*), U. Giesen (*U. Alberta*), I. Kelson, A.I. Yavin (*Tel Aviv U.*), J. Deutsch (*U. Catholique de Louvain*), J. Dilling (*SFU–Heidelberg*)
715. Weak interaction symmetries in β^+ decay of optically trapped $^{37,38\text{m}}\text{K}$ [active], A. Gorelov, D. Melconian (*SFU*), J.A. Behr, P. Bricault, M. Dombisky, K.P. Jackson, M. Pearson (*TRIUMF*), R. Pitcairn, D. Roberge, E. Prime (*UBC*), D.A. Ashery (*Tel Aviv U.*), G. Gwinner (*U. Manitoba*)
716. Complete beta-delayed particle emission study of ^{31}Ar [deferred], J. Cerny, D.M. Moltz, T. Ognibene, M.W. Rowe, R.J. Tighe (*Lawrence Berkeley Lab*), L. Buchmann (*TRIUMF*), J. D’Auria (*SFU*), M. Dombisky (*SFU–U. Alberta*), G. Roy (*U. Alberta*)
717. Muon hyperfine transition rates in light nuclei [completed], J.H. Brewer, E. Gete, M.C. Fujiwara, J. Lange, D.F. Measday, B.A. Moftah, M.A. Saliba, T. Stocki (*UBC*), T.P. Gorringer (*U. Kentucky*)
718. Superconductivity and magnetism in quaternary boron carbides [completed], A. Keren, G.M. Luke, Y.J. Uemura, W.D. Wu (*Columbia U.*), K. Kojima (*Columbia U.–U. Tokyo*), S. Uchida (*U. Tokyo*)
719. $^4\text{He}(\pi^+, \pi^- pp)$ invariant mass measurement with CHAOS [completed data-taking], P. Amaudruz, L. Felawka, D. Ottewell, G. Smith (*TRIUMF*), E.T. Mathie, R. Tacik, D.M. Yeomans (*U. Regina*), H. Clement, J. Gräter, R. Meier, G.J. Wagner (*U. Tübingen*), J. Clark, M. Seviar (*U. Melbourne*), A. Ambardar, G.J. Hofman, M. Kermani, G. Tagliente (*UBC*), F. Bonutti, P. Camerini, N. Grion, R. Rui (*U. di Trieste*), J. Brack, R. Ristinen (*U. Colorado*), E. Gibson (*California State U., Sacramento*), M. Schepkin (*ITEP Moscow*)
720. Muonium’s nucleophilicity [active], G.B. Porter, D.C. Walker (*UBC*), J.M. Stadlbauer* (*Hood Coll.*), K. Venkateswaran (*Hindustan Lever Ltd.*), M.V. Barnabas (*Proctor & Gamble Ltd.*)
721. The delta nucleon reaction in CHAOS [completed data-taking], F. Farzanpay, P. Hong, E.L. Mathie, N. Mobed (*U. Regina*), R. Tacik (*TRIUMF–U. Regina*), P.A. Amaudruz, L. Felawka, R. Meier, D. Ottewell, G.R. Smith (*TRIUMF*), N. Grion (*INFN, Trieste*), P. Camerini, R. Rui (*U. di Trieste*), E. Gibson (*California State U., Sacramento*), G. Hofman, G. Jones, M. Kermani (*UBC*), M.E. Seviar (*U. Melbourne*), J.T. Brack, R.A. Ristinen (*U. Colorado*)
722. Pion initial state interactions in the $^{12}\text{C}(\pi^+, ppp)$ reaction [completed data-taking], T. Mathie, R. Tacik (*U. Regina*), P.A. Amaudruz, L. Felawka, D. Ottewell, K. Raywood, G.R. Smith (*TRIUMF*), M. Kermani, S. McFarland (*UBC*), F. Bonutti, P. Camerini, R. Rui (*U. di Trieste*), N. Grion (*INFN, Trieste*), E.F. Gibson (*California State U., Sacramento*), M. Seviar (*U. Melbourne*), J. Brack, G. Hofman (*U. Colorado*), R. Meier (*U. Tübingen*)
723. Study of pion-nucleus double-scattering reactions [completed data-taking], R. Tacik (*TRIUMF–U. Regina*), T. Mathie (*U. Regina*), P. Amaudruz, L. Felawka, D. Ottewell, K. Raywood, G. Smith (*TRIUMF*), M. Kermani, S. McFarland (*UBC*), F. Bonutti, P. Camerini, R. Rui (*U. di Trieste*), N. Grion (*INFN, Trieste*), J. Brack, G. Hofman (*U. Colorado*), R. Meier (*U. Tübingen*), M. Seviar (*U. Melbourne*), E. Gibson (*California State U., Sacramento*)
724. μ SR measurements on spin ladder systems [completed], A. Keren, G.M. Luke, Y.J. Uemura, W.D. Wu (*Columbia U.*), K. Kojima (*Columbia U.–U. Tokyo*), M. Takano (*Kyoto U.*), K. Nagamine (*U. Tokyo*)
725. Pion double charge exchange reactions on $^{3,4}\text{He}$ in the energy range 50–100 MeV [completed], P. Amaudruz, L. Felawka, R. Meier, D. Ottewell, G. Smith (*TRIUMF*), T. Mathie, R. Tacik, M. Yeomans (*U. Regina*), J. Graeter, G. Wagner (*U. Tübingen*), J. Clark, M. Seviar (*U. Melbourne*), G. Hofman, M. Kermani, P. Tagliente (*UBC*), F. Bonutti, P. Camerini, N. Grion, R. Rui (*U. di Trieste*), J. Brack, R. Ristinen (*U. Colorado*), E. Gibson (*California State U., Sacramento*), O. Patarakin (*Kurchatov Inst.*), E. Friedman (*Hebrew U. Jerusalem*)
726. Beta-delayed proton and γ -decay of ^{65}Se , ^{69}Kr and ^{73}Sr [active], D. Anthony, J. D’Auria, M. Trinczek (*SFU*), R.E. Azuma, J.D. King (*U. Toronto*), L. Buchmann, K.P. Jackson, J. Vincent (*TRIUMF*), M. Dombisky (*SFU–U. Alberta*), U. Giesen (*TRIUMF–U. Alberta*), J. Görres, H. Schatz, M. Wiescher (*U. Notre Dame*), C. Iliadis (*TRIUMF–U. Toronto*), G. Roy (*U. Alberta*)
728. Search for population and de-excitation of low-spin superdeformed states in Po-Hg region via β^+ and α decays [completed data-taking], Y.A. Akaovali, M. Brinkman (*Oak Ridge Nat. Lab*), J.M. D’Auria (*TRIUMF–SFU*),

- J.A. Becker, E.A. Henry (*Lawrence Livermore Nat. Lab*), M. Domsbky (*SFU*), P.F. Mantica (*UNISOR*), W. Nazarewicz (*Joint Inst. for Heavy Ion*), J. Rikowska, N.J. Stone (*Oxford U.*), M.A. Stoyer (*Lawrence Berkeley Nat. Lab*), R.A. Wyss (*MSI, Sweden*)
729. Gamow-Teller and spin-dipole strengths from $^{17,18}\text{O}(n,p)$ [completed data-taking], D.P. Beatty, H.T. Fortune, P.P. Hui, R.B. Ivie, Z.Q. Mao, M.G. McKinzie, D.A. Smith (*U. Pennsylvania*), W.P. Alford (*U. Western Ontario*), K.P. Jackson, A.G. Ling, C.A. Miller, P. Walden, S. Yen (*TRIUMF*)
730. The solar neutrino problem and a new measurement of ${}^7\text{Be}(p,\gamma){}^8\text{B}$ [deferred], R.E. Azuma, J.D. King (*U. Toronto*), P. Bricault, L. Buchmann, T. Ruth, H. Schneider, J. Vincent, S. Zeisler (*TRIUMF*), J. D'Auria, R. Korteling (*SFU*), M. Domsbky (*SFU-U. Alberta*), U. Giesen (*TRIUMF-U. Alberta*), C. Iliadis (*TRIUMF-U. Toronto*), G. Roy (*U. Alberta*), M. Wiescher (*U. Notre Dame*)
731. Investigation of spin-polarized muonium in metallic semiconductors [completed], K.H. Chow, S. Dunsiger, R.F. Kiefl, W.A. MacFarlane, J. Sonier (*UBC*), S.F.J. Cox (*Rutherford Appleton Lab*), E.A. Davis, A. Singh (*Leicester U.*), T.L. Estle, B. Hitti (*Rice U.*), R.L. Lichti (*Texas Tech. U.*), P. Mendels (*Orsay U.*), C. Schwab (*CRN, Strasbourg*)
732. Quantum impurities in one dimensional spin 1/2 chains [completed], I. Affleck, J.H. Brewer, K. Chow, S. Dunsiger, S. Eggert, R.F. Kiefl, A. MacFarlane, J. Sonier (*UBC*), A. Keren, Y.J. Uemura (*Columbia U.*)
733. Probing high T_c superconductor with “paramagnetic” (μ^- O) system [active], H. Kojima, I. Tanaka, E. Torikai (*Yamanashi U.*), K. Nishiyama (*U. Tokyo*), K. Nagamine (*U. Tokyo-RIKEN*), I. Watanabe (*RIKEN*), T.P. Das (*State U. New York*), S. Maekawa (*Nagoya U.*)
734. Radiative muon capture on nickel isotopes [completed], D.S. Armstrong, P. McKenzie (*Coll. of William & Mary*), G. Azuelos, P. Depommier (*U. de Montréal*), P. Bergbusch, P. Gumplinger, M. Hasinoff, E. Saettler (*UBC*), B. Doyle, T.P. Gorringer, R. Sedlar (*U. Kentucky*), M. Blecher, C. Sigler (*Virginia Polytechnic Inst.*), J.A. MacDonald, J.-M. Poutissou, R. Poutissou, D. Wright (*TRIUMF*)
735. Studies of single layer cuprate superconductors [completed], G.M. Luke, B. Nachumi, Y.J. Uemura (*Columbia U.*), K. Kojima (*Columbia U.-U. Tokyo*), S. Uchida (*U. Tokyo*), R.H. Heffner, L.P. Le (*Los Alamos Nat. Lab*), R. MacLaughlin (*U. California, Riverside*), M.B. Maple (*U. California, San Diego*)
736. Tests of electro-weak theory using ${}^{14}\text{O}$ beam [deferred], M. Bahtacharya, A. Garcia, R. Rutchi, M. Wayne (*U. Notre Dame*), L. Buchmann (*TRIUMF*), C. Iliadis (*TRIUMF-U. Toronto*), B. Fujikawa (*Lawrence Berkeley Lab*), S.J. Freedman, J. Mortara (*U. California, Berkeley*)
737. Magnetic and superconducting behaviour in selected oxide materials [completed], R.H. Heffner, L.P. Le (*Los Alamos Nat. Lab*), D.E. Maclaughlin (*U. California, Riverside*), G. Luke, B. Nachuma, Y.J. Uemura (*Columbia U.*), K. Kojima (*Columbia U.-U. Tokyo*)
740. Irradiation of silicon tracker components [completed], R. Lipton, L. Spiegel (*Fermilab*), K.F. O’Shaughnessy (*U. California, Santa Cruz*), B. Barnett, J. Cameratta, J. Skarha (*Johns Hopkins U.*), N. Brunner, M. Frautschi, M. Gold, Y. Ling, J. Matthews, S. Seidel (*U. New Mexico*), D. Bortoletto, A. Garfinkel, A. Hardman, K. Hoffman, T. Keaffaber, N.M. Shaw (*Purdue U.*)
741. Beta-delayed proton decay of ${}^{17}\text{Ne}$ to α -emitting states in ${}^{16}\text{O}$ [completed], R.E. Azuma, J. Chow, J.D. King, A.C. Morton (*U. Toronto*), L. Buchmann, M. Domsbky (*TRIUMF*), U. Giesen (*U. Notre Dame*), T. Davinson, A.C. Shotter (*U. Edinburgh*), R.N. Boyd (*Ohio State U.*), C. Iliadis (*U. North Carolina*), J. Powell (*U. California, Berkeley*),
742. Scattering of muonic hydrogen isotopes [completed], V.M. Bystritsky, V.A. Stolupin (*JINR*), R. Jacot-Guillarmod, P.E. Knowles, F. Mulhauser (*U. Fribourg*), G.M. Marshall (*TRIUMF*), M. Filipowicz, J. Wozniak (*Fac. Phys., Nucl. Tech., Krakow*), A. Adamczak (*Inst. Nucl. Physics, Krakow*), A.R. Kunselman (*U. Wyoming*), V.E. Markushin, C. Petitjean (*PSI*), T.M. Huber (*Gustavus Adolphus Coll.*), G.A. Beer, M. Maier, A. Olin, T.A. Porcelli (*U. Victoria*), P. Kammel (*U. California, Berkeley*), M.C. Fujiwara (*UBC*), J. Zmeskal (*IMEP Vienna*), S.K. Kim (*Jeonbuk Nat. U.*)
743. Gamow-Teller strength in ${}^{64,66,68}\text{Zn}$ and ${}^{63,65}\text{Cu}(n,p)$ [completed data-taking], W.P. Alford (*U. Western Ontario*), D. Beatty, H.T. Fortune, P.P. Hui, R.B. Ivie, Z. Mao, M.G. McKinzie, D.A. Smith (*U. Pennsylvania*), S. Yen (*TRIUMF*)
744. Hadronic weak and electromagnetic form factors via $\pi^-p \rightarrow e^+e^-n$ [completed data-taking], P. Gumplinger, M.D. Hasinoff (*UBC*), T.P. Gorringer, M.A. Kovash (*U. Kentucky*), D.H. Wright (*SLAC*), E. Christy (*Hampton U.*), P. Zolnierczuk (*IUCF*)
745. μ^- SR measurements on one-dimensional spin systems [active], K. Kojima (*Columbia U.-U. Tokyo*), K. Nagamine, K. Nishiyama, S. Uchida (*U. Tokyo*), G.M. Luke, B. Nachumi, Y.J. Uemura (*Columbia U.*), I. Affleck, S. Dunsiger, S. Eggert, R.F. Kiefl (*UBC*)

746. Muonium dynamics in Si, Ge and GaAs studied by RF- μ SR and μ W- μ SR [active], S.R. Kreitzman (*TRIUMF*), T.L. Estle, B. Hitti (*Rice U.*), R. Lichti (*Texas Tech. U.*), K. Chow (*UBC*), S.F.J. Cox (*Rutherford Appleton Lab*), E.A. Davis (*Leicester U.*), C. Schwab (*CRN Strasbourg*)
747. μ SR study of re-entrant spin glasses a-FeMn, AuFe, and Fe₇₀Al₃₀ [completed], I.A. Campbell (*U. Paris Sud Orsay*), S. Dunsiger, R.F. Kiefl (*UBC*), M.J.P. Gingras (*TRIUMF*), M. Hennion, I. Mirebeau (*Saclay, LLB*), K. Kojima, G.M. Luke, B. Nachumi, Y.J. Uemura, W.D. Wu (*Columbia U.*)
749. Muonium-substituted free radicals [completed data-taking], B. Addison-Jones, J.C. Brodovitch, K. Ghandi, I. McKenzie, P.W. Percival (*SFU*), J. Schüth (*U. Bonn*)
750. Liquid chemistry μ SR [completed], G.B. Porter, D.C. Walker (*UBC*), J.M. Stadlbauer* (*Hood Coll.*), K. Venkateswaran (*Lever Hindustan Ltd.*), M.V. Barnabas *Procter & Gamble Ltd.*)
751. Tests in preparation for μ SR measurements of off-axis internal magnetic fields in anisotropic superconductors [active], E. Csomortani, W.J. Kossler, X. Wan (*Coll. of William & Mary*), D.R. Harshman (*Physikon Research Inc.*), A. Greer (*Gonzaga U.*), E. Koster, D.L. Williams (*UBC*), C.E. Stronach (*Virginia State U.*)
752. Muonium centres in Si and GaAs [completed], K.H. Chow (*Oxford U.*), S.F.J. Cox (*Rutherford Appleton Lab*), E.A. Davis (*Leicester U.*), S. Dunsiger, R.F. Kiefl, W.A. MacFarlane (*UBC*), T.L. Estle (*Rice U.*), B. Hitti (*TRIUMF*), R.L. Lichti (*Texas Tech. U.*), C. Schwab (*CRN Strasbourg*)
753. Studies of magnetic correlations in planar oxides [completed], K. Kojima (*Columbia U.-U. Tokyo*), M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), B.J. Sternlieb (*Brookhaven Nat. Lab*), S. Uchida (*U. Tokyo*)
754. A search for the muonium substituted hydroxyl radical [deferred], T.A. Claxton, G. Marston (*Leicester U.*), S.F.J. Cox (*Rutherford Appleton Lab*), D. Arseneau, D. Fleming, M. Senba, P. Wassell (*UBC*), J.-C. Brodovitch, P.W. Percival (*SFU*)
755. Muonium formation in Zn-spinels [deferred], G.M. Kalvius, A. Kratzer, W. Potzel (*Tech. U. Munich*), R. Wäppling (*U. Uppsala*), D.R. Noakes (*Virginia State U.*), S.R. Kreitzman (*TRIUMF*), A. Martin (*U. Jena*), M.K. Krause (*U. Leipzig*)
756. Mu+NO spin relaxation: electron exchange or paramagnetism? [deferred], D.G. Fleming, J.J. Pan, M. Senba, M. Shelley (*UBC*), D.J. Arseneau (*TRIUMF*), E. Roduner (*U. Zürich*)
757. Study of muon dynamics in ferroelectric materials and proton ionic conductors – comparison with proton dynamics [completed], W.K. Dawson, K. Nishiyama, S. Ohira, K. Shimomura (*U. Tokyo*), K. Nagamine (*U. Tokyo-RIKEN*), S. Ikeda (*KEK*), S. Shin (*ISSP U. Tokyo*), N. Sata (*Tohoku U.*)
758. Electronic structure of muonium and muonium-lithium complexes in graphite and related compounds [completed], J. Brewer, J. Chakhalian, S. Dunsiger, R.F. Kiefl, W.A. MacFarlane, R. Miller, J. Sonier (*UBC*), J. Dahn (*Dalhousie U.*), J. Fischer (*U. Pennsylvania*), B. Hitti, S.R. Kreitzman (*TRIUMF*)
759. Study of the isotropic hyperfine coupling constant of muonium at high temperature and under uniaxial pressure [completed], W.K. Dawson, K. Nishiyama, S. Ohira, K. Shimomura (*U. Tokyo*), K. Nagamine (*U. Tokyo-RIKEN*), T.P. Das (*U. New York, Albany*)
761. Parity violation in $p-p$ scattering at 450 MeV [deferred], J. Birchall, C.A. Davis, L. Lee, S.A. Page, W.D. Ramsay, A.W. Rauf, G. Rutledge, W.T.H. van Oers (*U. Manitoba*), R. Helmer, R. Laxdal, C.D.P. Levy (*TRIUMF*), P.W. Green, G. Roy, G.M. Stinson (*U. Alberta*), N.A. Titov, S. Zadorozhny, A.N. Zelenski (*INR, Moscow*), J.D. Bowman, R.E. Mischke, S. Penttila, W.S. Wilburn (*Los Alamos Nat. Lab*), E. Korkmaz, (*UNBC*), M. Simonius (*ETH Zürich*), J. Bisplinghoff, P.D. Eversheim, F. Hinterberger (*U. Bonn*), W. Kretschmer, G. Morgenroth (*U. Erlangen*), H. Schieck (*U. Cologne*), P. von Rossen (*KFA Jülich*)
762. Gamow-Teller and spin-flip dipole strengths near $A=90$ [completed data-taking], W.P. Alford (*U. Western Ontario*), D.P. Beatty, H.T. Fortune, P.P. Hui, R.B. Ivie, D. Koltenuk, J. Yu (*U. Pennsylvania*), A. Ling, S. Yen (*TRIUMF*), S. El-Kateb (*King Fahd U.*)
763. Muon cooling and acceleration in an undulating crystal channel [deferred], S.A. Bogacz, D.B. Cline, D.A. Sanders (*UCLA*), L.M. Cremaldi, B. Denardo, Q. Jie, D.J. Summers (*U. Mississippi-Oxford*), G.M. Marshall (*TRIUMF*)
764. Calibration of a segmented neutron detector [completed], E. Korkmaz, G. O'Rielly (*UNBC*), D.A. Hutcheon (*TRIUMF*), A.K. Opper (*U. Alberta*), G. Feldman, N.R. Kolb (*U. Saskatchewan*)
766. The ortho-para transition rate in muonic molecular hydrogen [completed], D.S. Armstrong, J.H.D. Clark, P. King (*Coll. of William & Mary*), T.P. Gorringe, S. Tripathi, P.A. Żolnierczuk (*U. Kentucky*), M.D. Hasinoff, T. Stocki (*UBC*), D.H. Wright (*TRIUMF*)

767. Direct measurement of sticking in muon catalyzed $d - t$ fusion [inactive], J.M. Bailey (*Chester Technology, UK*), G.A. Beer, M. Maier, G.R. Mason, T.A. Porcelli (*U. Victoria*), K.M. Crowe, P. Kammel (*U. California, Berkeley-LBL*), M.C. Fujiwara, E. Gete, T.J. Stocki (*UBC*), T.M. Huber (*Gustavus Adolphus Coll.*), S.K. Kim (*Jeonbuk Nat. U.*), A.R. Kunselman (*U. Wyoming*), G.M. Marshall, A. Olin (*TRIUMF*), C.J. Martoff (*Temple U.*), V.S. Melezhik (*JINR, Dubna*), F. Mulhauser (*U. Fribourg*), C. Petitjean (*PSI*), J. Zmeskal (*IMEP Vienna*)
768. Generalized Fulde-Ferrell-Larkin-Ovchinnikov state in heavy fermion and intermediate valence systems [completed], J. Akimitsu, K. Oishi, T. Muranaka (*Aoyama Gakuin U.*), W. Higemoto, R. Kadono, A. Koda (*KEK-IMSS*), M. Nohara, H. Suzuki, H. Takagi (*U. Tokyo*), R.F. Kiefl, R.I. Miller, A.N. Price (*UBC-TRIUMF*), J.E. Sonier (*SFU*)
769. Effects of uniaxial stress on muonium in semiconductors [completed], K.H. Chow (*Oxford*), B. Hitti (*TRIUMF*), R.F. Kiefl (*UBC*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*)
770. μ SR studies of organic conductors: $(\text{BEDT-TTF})_2\text{-X}$ and $(\text{TMTTF})_2\text{Br}$ [completed], K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), P.M. Chaikin (*Princeton U.*), G. Saito (*Kyoto U.*)
771. μ SR studies of geometrically frustrated $S = 1/2$ spin systems [completed], K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), M.J.P. Gingras (*TRIUMF*), S. Dunsiger, R.F. Kiefl (*UBC*), D.C. Johnston, S. Kondo (*Iowa State U.*), S. Uchida (*U. Tokyo*), R.J. Cava (*AT&T Bell Labs*)
772. Search for the $\Delta - \Delta$ dibaryon [inactive], R. Abegg*, C.A. Miller, P. Walden, S. Yen (*TRIUMF*), R. Bent (*Indiana U.*), T.Y. Chen, F. Wang, C.H. Ye (*Nanjing U.*), W. Falk (*U. Manitoba*), D. Frekers, M. Hartig (*U. Muenster*), T. Goldman (*Los Alamos Nat. Lab*), M. Heyrat, C.W. Wong (*UCLA*), G. Jones (*UBC*), E. Korkmaz, G. O'Rielly (*UNBC*), C. Rangacharyulu (*U. Saskatchewan*), I. Strakovsky (*Virginia Tech. Inst.*), Z.X. Sun, J.C. Xu (*Inst. Atomic Energy, China*), T. Walton (*Cariboo U. Coll.*)
773. Muon-electron interaction in n -type silicon [completed], D. Arseneau, B. Hitti, S.R. Kreitzman (*TRIUMF*), J.H. Brewer, R.F. Kiefl, G. Morris (*UBC*), K. Chow (*Oxford U.*), S.F.J. Cox (*Rutherford Appleton Lab*), D.G. Eshchenko (*INR, Moscow*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*), V.G. Storchak, (*Kurchatov Inst.*)
774. Muonium dynamics in GaAs studied by rf and μ -wave μ SR [active], B. Hitti, S.R. Kreitzman (*TRIUMF*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*)
775. Electron transport in insulators, semiconductors and magnetic materials [completed], J.H. Brewer, A. Izadi, D.M.C. Liu, K.M. Nichol, S. Sivanandam, A.T. Warkentin (*UBC*), G.D. Morris (*TRIUMF*), V.G. Storchak (*Kurchatov Inst.*), D.G. Eshchenko (*INR, Moscow*), J.D. Brewer (*SFU*)
776. Rare earth materials with disordered spin structures [completed], J.H. Brewer (*UBC*), K. Fukamichi (*Tohoku U.*), G.M. Kalvius (*Tech. U. Munich*), D.R. Noakes, C.E. Stronach (*Virginia State U.*), R. Wäppling (*Uppsala U.*)
777. Vortex state of s -wave superconductors investigated by muon spin rotation [completed], J.C. Chakhalian, K. Chow, R. Miller, A.N. Price (*UBC*), J.H. Brewer, R.F. Kiefl (*UBC-TRIUMF*), G.M. Luke (*McMaster U.*), J.E. Sonier (*SFU*)
778. $\pi^\pm p$ differential cross sections in the Coulomb-nuclear interference region [completed data-taking], P. Amaudruz, D. Ottewell, (*TRIUMF*), P. Camerini, E. Fragiaco, N. Grion, S. Piano, R. Rui (*INFN Trieste-U. Trieste*), K. Babcock, E. Mathie, H. Xu, D.M. Yeomans (*U. Regina*), G. Hofman, M.M. Pavan, K.J. Raywood, R. Tacik (*Regina-TRIUMF*), J. Breitschopf, H. Denz, R. Meier, F. von Wrochem, G. Wagner (*U. Tübingen*), G. Moloney, M. Seviar (*U. Melbourne*), J. Brack, J. Patterson, R. Ristinen (*U. Colorado*), E. Gibson (*California State U., Sacramento*), O. Patarakin (*Kurchatov Inst.*), G. Smith (*Jefferson Lab*)
779. Accelerator mass spectrometry experiments at ISAC [inactive], S. Calvert, A. Glass, R.R. Johnson, T. Petersen (*UBC*), Z. Gelbart, D. Ottewell (*TRIUMF*), R. Schubank (*unaffiliated*), C.S. Wong (*Inst. of Ocean Sciences*), J. Clague (*Geological Survey Canada*), M. Paul (*Hebrew U. Jerusalem*)
780. Deeply bound pionic states through $^{208}\text{Pb}(p, ^3\text{He})^{206}\text{Pb} \otimes \pi^-$ [completed], D. Frekers, W. Garske, K. Grewer, M. Hartig, H. Wörtche (*U. Muenster*), H. Machner (*KFA, Jülich*), D. Hutcheon, P. Walden, S. Yen (*TRIUMF*), A. Opper (*U. Ohio*)
781. Investigations of the $\pi\pi$ invariant mass distributions of nuclear ($\pi^+, \pi^-\pi^+$) reactions with the CHAOS detector [completed data-taking], J. Clark, G. Moloney, M.E. Seviar (*U. Melbourne*), L. Felawka, G. Hofman, D.F. Ottewell, K. Raywood, G.R. Smith (*TRIUMF*), R. Meier (*U. Tübingen*), P. Camerini, E. Fragiaco, R. Rui (*INFN Trieste-U. Trieste*), N. Grion, S. Piano (*INFN, Trieste*), E.L. Mathie, R. Tacik, (*U. Regina*), E.F. Gibson (*Cal. State U., Sacramento*)

782. Non-fermi-liquid behaviour and other novel phenomena in heavy-fermion alloys [completed], J.E. Anderson, D.E. MacLaughlin, L. Shu (*U. California, Riverside*), R.H. Heffner, G.D. Morris (*Los Alamos Nat. Lab*), N.A. Frederick, M.B. Maple, W.M. Yuhasz (*U. California, San Diego*), O.O. Bernal (*Cal. State U., Los Angeles*), F. Callaghan, J.E. Sonier (*SFU*), B. Andracka, G.R. Stewart (*U. Florida*)
783. Paramagnetic frequency shifts in unconventional superconductors [active], R.H. Heffner, G.D. Morris (*Los Alamos Nat. Lab*), D.E. MacLaughlin (*U. California, Riverside*), G.J. Nieuwenhuys (*U. Leiden*), O.O. Bernal (*Cal. State U., Los Angeles*), J.E. Sonier (*SFU*)
784. μ SR studies of spin singlet states in oxides [active], A. Fukaya, I. Gat, M. Larkin, A. Savici, Y.J. Uemura (*Columbia U.*), T. Ito (*Columbia U.-ETL*), H. Kageyama, K. Ueda, Y. Ueda (*U. Tokyo*), P.P. Kyriakou, G.M. Luke, M.T. Rovers (*McMaster U.*)
785. Pion double charge exchange on ^3He with CHAOS [completed data-taking], R. Tacik (*TRIUMF-U. Regina*), E.L. Mathie, M. Yeomans (*U. Regina*), H. Clement, J. Graeter, R. Meier, J. Petzold, G.J. Wagner (*U. Tübingen*), E. Friedman (*Hebrew U. Jerusalem*), N. Grion (*INFN Trieste*), P. Camerini, E. Fragiaco, R. Rui (*U. Trieste*), L. Felawka, D. Ottewell, K. Raywood, G.R. Smith (*TRIUMF*), G. Hofman, B. Jamieson, G. Tagliente (*UBC*), J. Clark, G. Molony, M.E. Sevier (*U. Melbourne*), E. Gibson (*California State U. Sacramento*), H. Staudenmeyer (*U. Karlsruhe*), S. Filippov, Y. Gavrilov, T. Karavicheva (*Moscow Meson Factory*)
786. Low energy structures in the β -delayed particle decays of ^9C , ^{12}N and ^{17}Ne [completed], N. Bateman (*TRIUMF-SFU-U. Toronto*), L. Buchmann, K.P. Jackson, T. Shoppa (*TRIUMF*), J. Chow, J.D. King, C. Mortin (*U. Toronto*), T. Davison, A. Ostrowski, A. Shotter (*U. Edinburgh*), J. D'Auria (*SFU*), E. Gete, D. Measday (*UBC*), U. Giesen (*U. Alberta*)
788. Nuclear and atomic physics with the CPT spectrometer [inactive], B. Barber, K.S. Sharma (*U. Manitoba*), X. Feng (*U. Manitoba-McGill U.*), F. Buchinger, J. Crawford, S. Gulick, J. Lee, B. Moore (*McGill U.*), E. Hagberg, J. Hardy, V. Koslowsky, G. Savard (*Chalk River Nuclear Lab*)
789. μ SR studies of magnetic fluctuations in hydronium jarosites, model Kagomé antiferromagnets [completed], A. Harrison, A.S. Wills (*U. Edinburgh*), Y. Fudamoto, K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), T. Mason (*U. Toronto*)
790. μ SR studies of stripe order in $\text{La}_{1.6-x}\text{Sr}_x\text{Nd}_{0.4}\text{CuO}_4$ modified cuprate superconductors [completed], Y. Fudamoto, K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), M. Crawford (*Du Pont*), A. Moodenbaugh (*Brookhaven Nat. Lab*), S. Uchida (*U. Tokyo*)
791. Electronic structure and dynamics of charged muonium and muonium-dopant centers in semiconductors [active], K.H. Chow (*Oxford U.*), R.F. Kiefl (*UBC*), B. Hitti (*TRIUMF*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*), S.F.J. Cox (*Rutherford Appleton Lab*), C. Schwab (*CRN, Strasbourg*)
792. Muonium in III-V semiconductors: identification of states and transitions [completed], K.H. Chow *Oxford U.*, S.F.J. Cox (*Rutherford Appleton Lab*), B. Hitti (*TRIUMF*), T.L. Estle (*Rice U.*), R.L. Lichti (*Texas Tech. U.*), C. Schwab (*CRN, Strasbourg*)
793. Production of an intense ^{15}O beam for ISAC [completed], J. D'Auria, R. Lange (*SFU*), M. Dombisky, T. Ruth, J. Vincent (*TRIUMF*), K. Carter (*Oak Ridge Nat. Lab*), B. Zhuikov (*INR, Moscow*)
794. μ^+ SR study on the magnetic properties of LaCoO_3 and $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ [completed], V.V. Krishnamurthy, I. Watanabe (*RIKEN*), K. Asai, N. Yamada (*U. Electro-communications*), K. Nagamine (*U. Tokyo-RIKEN*)
795. μ SR study on non fermi liquid behaviour [completed], Y. Miyako, Y. Yamamoto (*Osaka U.*), S. Murayama (*Muroran Inst. Tech.*), K. Nagamine (*U. Tokyo*), K. Nishiyama (*U. Tokyo-RIKEN*)
796. μ SR studies in ionic crystals doped with either colour centres or impurity [deferred], Y. Miyake, K. Nagamine, K. Nishiyama, K. Shimomura (*U. Tokyo*), A. Matsusita (*RIKEN*)
797. Magnetic correlations in the ternary equiatomic Ce compounds CeT_2Sn [completed], G. Grosse, G.M. Kalvius A. Kratzer (*Tech. U. Munich*), R. Wäppling (*U. Uppsala*), T. Takabatake (*Hiroshima U.*), D.R. Noakes, C.R. Stronach (*Virginia State U.*), Y. Echizen (*Hiroshima U.*), H. Nakotte (*New Mexico State U.*), H.v. Löhneysen (*U. Karlsruhe*)
798. μ SR studies on the competition of RKKY exchange and Kondo effect in CeT_2X_2 compounds (T=transition metal, X=Si,Ge) [completed], H.-H. Klauss, W. Kopmann, F.J. Litterst, W. Wagener, H. Walf (*Tech. U. Braunschweig*), E. Baggio Saitovitch, M.B. Fontes (*CBPF Rio de Janeiro*), A. Krimmel, A. Loidl (*U. Augsburg*)
799. Hyperfine structure and site determination of (μ^- O) system in LaSuCuO high T_c superconductors [completed], H. Kojima, I. Tanaka, E. Torikai (*Yamanashi U.*), K. Nishiyama (*U. Tokyo-RIKEN*), K. Nagamine, K. Shimomura (*U. Tokyo*), I. Watanabe (*RIKEN*), T.P. Das (*State U. New York*)

801. Studies of multi-phonon states via β -decay [completed], C.J. Barton, M.A. Caprio, R.F. Casten, N.V. Zamfir (*Yale U.*), D.S. Brenner (*Clark U.*), G.C. Ball, K.P. Jackson (*TRIUMF*)
802. Superdeformation and smooth band termination on and near the $N = Z$ line: Part 1 ^{60}Zn [active], J.A. Cameron, S. Flibotte, D.S. Haslip, J. Nieminen, C. Svensson, J.C. Waddington, J.N. Wilson (*McMaster U.*), G. Ball (*TRIUMF*), A. Galindo-Uribarri, D.C. Radford (*Oak Ridge Nat. Lab*), D. Ward (*Lawrence Berkeley Nat. Lab*)
803. Experimental studies of interaction and properties of neutron-rich nuclei at ISAC [inactive], A.S. Iljinov, A.V. Klyachko, E.S. Konobeevsky, M.V. Morodovskoy, M.A. Prohvatilov, A.I. Reshetin, Yu.V. Ryabov, K.A. Shileev, V.A. Simonov, V.M. Skorkin, S.V. Zuyev (*INR, Moscow*)
804. Muonium in gallium nitride [completed], B.A. Bailey, R.L. Lichti (*Texas Tech. U.*), K.H. Chow (*U. Alberta*), B. Hitti (*TRIUMF*), S.F.J. Cox (*Rutherford Appleton Lab*), E.A. Davis (*Leicester U.*)
805. A study of the $^{13}\text{N}(p, \gamma)^{14}\text{O}$ reaction with a ^{13}N beam [active], R.E. Azuma, J. Chow, J.D. King, A.C. Morton (*U. Toronto*), N. Bateman (*TRIUMF-Toronto*), L. Buchmann, K.P. Jackson, T. Shoppa (*TRIUMF*), J.M. D'Auria (*SFU*), U. Giesen (*SFU-TRIUMF*), G. Roy (*U. Alberta*), W. Galster (*U. Catholique de Louvain*), A.C. Shotter (*U. Edinburgh*), R.N. Boyd (*Ohio State U.*), U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*)
806. Excitation of high-spin isomeric states and compound nucleus formation by intermediate energy protons and stopped pions [completed data-taking], A.S. Iljinov, V.M. Kokhanyuk, B.L. Zhuikov (*INR, Moscow*), I. Liu, J. Vincent, A.Z. Zyuzin (*TRIUMF*)
808. Spin glass order in magnets frustrated by competing ferro- and antiferromagnetic exchange [completed], G.M. Kalvius, A. Kratzer, E. Schreier (*Techn. U. Munich*), R. Wäppling (*U. Uppsala*), D.R. Noakes (*Virginia State U.*), J. Gal (*Beer Sheva U.*), W. Schäfer (*Bonn U.*)
809. Quantum diffusion of muonium in crystals with orientational degrees of freedom [completed], D. Arseneau, B. Hitti, S.R. Kreitzman (*TRIUMF*), J.H. Brewer, A. Izadi, G.D. Morris (*UBC*), D.G. Eshchenko (*INR, Moscow*), V.G. Storchak (*Kurchatov Inst.*), J.D. Brewer (*SFU*)
810. First direct study of the $^{23}\text{Mg}(p, \gamma)^{24}\text{Al}$ reaction with a recoil mass separator (DRAGON) [active], N.P.T. Bateman, J.M. D'Auria, D. Hunter, R. Korteling (*SFU*), R.N. Boyd (*Ohio State U.*), L. Buchmann, R. Helmer, D. Hutcheon, K.P. Jackson, A. Olin, J. Rogers (*TRIUMF*), U. Giesen, G. Roy (*U. Alberta*), L. Gialanella, U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*), A. Hussein (*UNBC*), M. Junker (*INFN Gran Sasso*), J.D. King (*U. Toronto*), P.D. Parker (*Yale U.*), A. Shotter (*U. Edinburgh*), M. Wiescher (*U. Notre Dame*)
811. A direct study of the $^{19}\text{Ne}(p, \gamma)^{20}\text{Na}$ reaction with a recoil mass separator (DRAGON) [active], N.P.T. Bateman, J.M. D'Auria, D. Hunter, R. Korteling (*SFU*), R.N. Boyd (*Ohio State U.*), L. Buchmann, R. Helmer, D. Hutcheon, K.P. Jackson, A. Olin, J. Rogers (*TRIUMF*), U. Giesen, G. Roy (*U. Alberta*), L. Gialanella, U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*), A. Hussein (*UNBC*), M. Junker (*INFN Gran Sasso*), J.D. King (*U. Toronto*), P.D. Parker (*Yale U.*), A. Shotter (*U. Edinburgh*), M. Wiescher (*U. Notre Dame*)
812. Proposed study of the $^8\text{Li}(\alpha, n)^{11}\text{B}$ reaction [active], R.N. Boyd, A. Murphy, L. Sahin, E. Smith, M. Zahar (*Ohio State U.*), L. Buchmann, P. Walden (*TRIUMF*), J.M. D'Auria (*SFU*), J.D. King (*U. Toronto*), M. Nishimura, S. Nishimura, I. Tanihata (*RIKEN*)
813. A study of the $^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}$ reaction at the astrophysically important energy [active], N.P.T. Bateman, J.M. D'Auria, D. Hunter, R. Korteling (*SFU*), R.N. Boyd (*Ohio State U.*), L. Buchmann, R. Helmer, D. Hutcheon, K.P. Jackson, A. Olin, J. Rogers (*TRIUMF*), U. Giesen, G. Roy (*U. Alberta*), U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*), A. Hussein (*UNBC*), J.D. King (*U. Toronto*), P.D. Parker (*Yale U.*), A. Shotter (*U. Edinburgh*), M. Wiescher (*U. Notre Dame*)
814. μSR studies of unconventional superconductivity in Sr_2RuO_4 [active], Y. Fudamoto, K.M. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), Y. Maeno (*Kyoto U.*), R.J. Cava (*Princeton U.*)
815. β -NMR investigation of magnetic multilayers and giant magnetoresistance [active], J. Chakhalian, W.A. MacFarlane, R. Miller, (*UBC*), J.H. Brewer, R.F. Kiefl (*UBC-TRIUMF*), P. Amaudruz, R. Baartman, T.R. Beals, J. Behr, S. Daviel, S.R. Kreitzmann, T. Kuo, C.D.P. Levy, M. Olivo, R. Poutissou, Z. Salman, G.D. Wight (*TRIUMF*) S.R. Dunsiger, R. Heffner, G.D. Morris (*Los Alamos Nat. Lab*), C. Bommas (*U. Bonn*), A. Hatakeyama, Y. Hirayama, T. Shimoda (*Osaka U.*), K.H. Chow (*U. Alberta*), J.E. Elenewski, L.H. Greene (*U. Illinois-Urbana-Champagne*)
816. Semiconductor quantum wells investigated by β -NMR [active], J.H. Brewer, J.C. Chakhalian, S. Dunsiger, R. Miller, T. Tiedje (*UBC*), M. Gingras (*U. Waterloo*), B. Ittermann (*U. Marburg*), B. Hitti, P. Levy, S.R. Kreitzman, A. Zelenski (*TRIUMF*), R.F. Kiefl (*TRIUMF-UBC*)

817. β -NMR investigation of type II superconductors [active], D. Bonn, J.H. Brewer, J.C. Chakhalian, S. Dunsiger, W. Hardy, R. Liang, R.F. Kiefl, W.A. MacFarlane, R. Miller, J. Sonier (*UBC*), M. Gingras (*U. Waterloo*), R. Heffner (*Los Alamos Nat. Lab*), B. Itterman (*U. Marburg*), B. Hitti, P. Levy, S.R. Kreitzman, A. Zelenski (*TRIUMF*), G.M. Luke (*Columbia U.*), J.W. Brill (*U. Kentucky*)
818. μ^+ SR study of magnetic ordering in the one-dimensional spin-1/2 antiferromagnet copper benzoate [completed], J.C. Chakhalian, S. Dunsiger, R.F. Kiefl, W.A. MacFarlane, R. Miller, J. Sonier (*UBC*), C. Broholm, D.C. Dender, P. Hammar, D. Reich (*Johns-Hopkins U.*), G. Luke, T. Uemura (*Columbia U.*)
819. μ^+ SR studies of the antiferromagnetic instability and metastable state in colossal magnetoresistance system $(\text{Nd}_{1-y}\text{Sm}_y)_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ ($y = 0.875$) [completed], W. Higemoto, I. Watanabe (*RIKEN*), K. Nishiyama (*KEK*), K. Nagamine (*RIKEN-KEK*), A. Asamitsu, H. Kuwahara, Y. Tokura (*JRCAT, U. Tokyo*)
821. Shape coexistence and shape mixing in neutron-deficient platinum isotopes: on-line nuclear orientation studies of the decays of ^{182}Au and ^{186}Au [active], K.S. Krane (*Oregon State U.*), J.L. Wood (*Georgia Inst. Tech.*), J. D'Auria (*SFU*)
822. Effect of disorder on quantum spin liquid state [completed data-taking], W. Higemoto, R. Kadono, A. Koda, K. Ohishi, (*KEK-IMSS*), M. Nohara, H. Takagi, H. Ueda, C. Urano (*U. Tokyo*)
823. Pure fermi decay in medium mass nuclei [active], G.C. Ball, R. Beaton, P. Bricault, G. Hackman, P. Klages, J.A. Macdonald*, E. Vandervoort (*TRIUMF*), D.F. Hodgson (*U. Surrey-TRIUMF*), J. Cerny, D.M. Moltz, J. Powell (*Lawrence Berkeley Lab*), G. Savard (*Argonne Nat. Lab*), J.C. Hardy, V. Iacob (*Texas A&M U.*), S. Bishop, J. D'Auria (*SFU*), J.R. Leslie, H.-B. Mak, I.S. Towner (*Queen's U.*), D. Kulp, J.L. Wood (*Georgia Inst. Tech.*), E.F. Zganjar, A. Piechaczek (*Louisiana State U.*)
824. Measurement of the astrophysical rate of the $^{21}\text{Na}(p,\gamma)^{22}\text{Mg}$ reaction [active], S. Bishop, J.M. D'Auria, D. Hunter, M. Lamey, W. Liu, C. Wrede, (*SFU*), L. Buchmann, D. Hutcheon, A.M. Laird, A. Olin, D. Ottewell, J.G. Rogers (*TRIUMF*), S. Engel, F. Strieder (*Ruhr U.*), D. Gigliotti, A. Hussein (*UNBC*), R. Azuma, J.D. King (*U. Toronto*), R. Lewis, P.D. Parker (*Yale U.*), S. Kubono, S. Michimasa (*U. Tokyo*), M. Chatterjee (*Saha Inst., Calcutta*), U. Greife, C. Jewett (*Colorado School of Mines*), A.A. Chen (*McMaster U.*), M. Hernandez, J. José (*IEEC, Barcelona*)
826. Studies of ultrathin magnetic films with implanted isotopes [active], R. Kiefl, J. Pond, B.G. Turrell (*UBC*), C.A. Davis, P.P.J. Delheij (*TRIUMF*), K.S. Krane, J. Loats, P. Schmelzenbach, C. Stapels (*Oregon State U.*), D. Groh, W. Kumarasiri, P. Mantica (*Michigan State U.*), D. Kulp, J.L. Wood (*Georgia Inst. Tech.*)
827. Parity violation in ^{182}W [active], J. D'Auria (*TRIUMF-SFU*), C.A. Davis P.P.J. Delheij (*TRIUMF*), R. Kiefl, A. Kotlicki, J. Pond, B. Turrell (*UBC*), K.S. Krane (*Oregon State U.*)
828. Nuclear moments in the mass-100 region [active], K.S. Krane, J. Loats, P. Schmelzenbach, C. Stapels (*Oregon State U.*), D. Kulp, J.L. Wood (*Georgia Inst. Tech.*), C.A. Davis, P.P.J. Delheij (*TRIUMF*), D. Groh, W. Kumarasiri, P. Mantica (*Michigan State U.*), R. Kiefl, J. Pond, B.G. Turrell (*UBC*)
829. Muonium as a hydrogen isotope: reactions in solution [completed], D.P. Chong, G.B. Porter, D.C. Walker (*UBC*), K. Venkateswaran (*Hindustan Lever Ltd.*), H.A. Gillis (*St. Francis Xavier U.*)
830. The hot entropy bubble and the decay of ^9Li [active], N. Bateman (*TRIUMF-SFU-Toronto*), L. Buchmann, K.P. Jackson, S. Karataglidis, T. Shoppa, E. Vogt (*TRIUMF*), J. Chow, J.D. King, C. Mortin (*U. Toronto*), T. Davison, A. Ostrowski, A. Shotter (*U. Edinburgh*), J. D'Auria, U. Giesen (*SFU*), E. Gete, D. Measday (*UBC*)
831. Magnetic properties of $\text{REBa}_2\text{Cu}_3\text{O}_x$ [completed data-taking], D. Andreica, F.N. Gygax, M. Pinkpank, A. Schenck (*ETH Zürich*), B. Hitti (*TRIUMF*), A. Amato (*PSI*), J.H. Brewer (*UBC-TRIUMF*)
832. Study of the non-magnetic-magnetic transition in the $\text{Yb}(\text{Cu}_{1-x}\text{Ni}_x)_2\text{Si}_2$ system [completed data-taking], D. Andreica, F. Gygax, M. Pinkpank, A. Schenck (*ETH Zürich-PSI*), A. Amato (*PSI*), B. Hitti (*TRIUMF*)
833. μ SR studies of doped MnSi and V_{2-y}O_3 : non-fermi-liquid behaviour, spin fluctuations and itinerant magnetism [active], A. Fukaya, I.M. Gat, M. Larkin, A.J. Millis, P.L. Russo, A.T. Savici, Y.J. Uemura (*Columbia U.*), P.P. Kyriakou, G.M. Luke, C.R. Wiebe (*McMaster U.*), Y.V. Sushko (*U. Kentucky*), R.H. Heffner (*Los Alamos Nat. Lab*), D.E. MacLaughlin (*U. California, Riverside*), D. Andreica (*PSI*), M. Kalvius (*Tech. U. Munich*)
834. μ SR study of transverse spin freezing in bond-frustrated magnets [active], A.D. Beath, D.H. Ryan, (*McGill U.*), J.M. Cadogan (*U. New South Wales*), J. van Lierop (*U. Michigan*)
835. μ SR studies of intercalated HfN and Bi2212 superconductors [active], M. Greven, N. Kaneko, (*Stanford U.*), I.M. Gat, M.I. Larkin, P.L. Russo, A. Savici, Y.J. Uemura, (*Columbia U.*), G.M. Luke, G.J. MacDougall, C.R. Wiebe (*McMaster U.*), Y. Ando (*U. Tokyo*)
836. Elasticks [active], R.E. Azuma, J.D. King (*U. Toronto*), G. Ball, L. Buchmann, K.P. Jackson, B. Jennings, S. Karataglidis, E. Vogt (*TRIUMF*), N. Bateman (*TRIUMF-SFU-U. Toronto*), T. Davison, A. Ostrowski, A. Shotter (*U. Edinburgh*), J. D'Auria (*SFU*), W. Galster (*U. Catholique de Louvain*), G. Roy (*U. Alberta*)

837. Pion-induced errors in memory chips [completed], J.T. Brack, G. Hofman, J. Patterson R.J. Peterson, R.A. Ristinen (*U. Colorado*), J.F. Ziegler (*IBM*), M.E. Nelson (*US Naval Academy*), G. Smith (*TRIUMF*)
838. Measurement of the $\pi^-p \rightarrow \gamma\gamma n$ capture mode of pionic hydrogen [completed data-taking], T. Gorringer, M. Kovash, S. Tripathi, P. Żolnierczuk (*U. Kentucky*), D. Armstrong, J. Clark (*Coll. of William & Mary*), M. Hasinoff (*UBC*), D. Healey, D. Wright (*TRIUMF*)
839. Thermal test of prototype high power ISAC target [completed], D. Drake, D. Liska, W.L. Talbert, M. Wilson (*Amparo Corp.*), P. Bricault, M. Dombisky, P. Schmor (*TRIUMF*), E. Dalder, C. Landram, K. Sale, D. Slaughter (*Lawrence Livermore Nat. Lab*), J. Nolen, G. Savard (*Argonne Nat. Lab*), G. Alton (*Oak Ridge Nat. Lab*)
840. Muon transfer from excited states of muonic hydrogen with x-ray measurement [active], S. Sakamoto, K. Shimomura (*KEK*), K. Nagamine (*KEK-RIKEN*), K. Ishida, N. Kawamura, Y. Matsuda, T. Matsuzaki, S.N. Nakamura, P. Strasser (*RIKEN*)
841. ISAC beam and target development [active], P. Bricault, M. Dombisky (*TRIUMF*)
842. Muonium-substituted free radicals in sub- and supercritical water [completed], J.-C. Brodovitch, S. Kecman, B. McCollum, I. McKenzie, P.W. Percival (*SFU*), B. Addison-Jones (*Douglas College*)
843. Quadrupole ordering in dense Kondo system studied by μ LCR [completed data-taking], J. Akimitsu, K. Kakuta, K. Ohishi (*Aoyama Gakuin U.*), W. Higemoto, R. Kadono (*KEK-IMSS*), T. Yokoo (*CREST*)
844. Quantum impurities in one dimensional spin 1/2 chains [completed], I. Affleck, J. Brewer, J. Chakhalian, S. Dunsiger, R.F. Kiefl, R. Miller, A. Price (*UBC*), S. Eggert (*Chalmers U.*), B. Hitti (*TRIUMF*), A.A. Keren (*Israel Inst. Tech.*), W.A. MacFarlane (*U. Paris-Sud*), G. Morris (*UBC-TRIUMF*), Y.J. Uemura (*Columbia U.*), M. Verdager (*CNRS*), I. Yamada (*Chiba U.*)
845. μ SR studies of vortex phases in (Ba,K)BiO₃ [completed], G.M. Luke, M.A. Lumsden (*McMaster U.*), Y. Fudamoto, M.I. Larkin, Y.J. Uemura (*Columbia U.*), K.M. Kojima (*U. Tokyo*), M. Gingras (*U. Waterloo*), I. Jourard, T. Klein, J. Marcus (*U. Grenoble*)
846. Complex order parameter symmetry in YB₂Cu₃O_{7- δ} at low T and high magnetic field [completed], D.A. Bonn, J.H. Brewer, W.N. Hardy, R.F. Kiefl, R.X. Liang, J.-M. Ménard, R.I. Miller (*UBC*), D. Babineau, K.F. Poon, J.E. Sonier (*SFU*), C.E. Stronach (*Virginia State U.*)
847. Electron-doped high- T_c superconductors [active], P. Fournier (*U. Sherbrooke*), F.D. Callaghan, C.V. Kaiser, M. Laulajainen, J.E. Sonier (*SFU*), R.L. Greene (*U. Maryland*)
848. μ SR investigation of the vortex state of YBa₂Cu₃O_{6+x} [completed data-taking], D.A. Bonn, J.C. Chakhalian, K. Chow, W.N. Hardy, R.X. Liang, R. Miller, A.N. Price (*UBC*), J.H. Brewer, R.F. Kiefl (*UBC-TRIUMF*), J. Sonier (*SFU*)
849. Spin structure and magnetic volume fraction of La₂₁₄ systems: revisiting “1/8”, “stripes”, “spin glass”, and “swiss cheese” [completed], K.M. Kojima (*U. Tokyo*), Y. Fudamoto, I.M. Gat, M.I. Larkin, A.T. Savici, Y.J. Uemura (*Columbia U.*), G.M. Luke (*McMaster U.*), M.A. Kastner, Y.S. Lee (*MIT*), R.J. Birgeneau (*MIT-U. Toronto*), K. Yamada (*Kyoto U.*)
850. Effects of dilute (Cu,Zn) substitution in spin gap systems SrCu₂O₃ and CuGeO₃ [completed], Y. Fudamoto, I. Gat, M.I. Larkin, Y.J. Uemura (*Columbia U.*), K.M. Kojima, K. Manabe, K. Uchinokura (*U. Tokyo*), G.M. Luke (*McMaster U.*), M. Azuma, M. Takano (*Kyoto U.*)
851. μ SR in ruthenate and cuprate high- T compounds [active], D.R. Harshman (*Physikon Research Corp.*), M.K. Wu (*Nat. Tsing Hua U.*), F.Z. Chien (*Tamkang U.*), J.D. Dow (*Arizona State U.*), A.J. Greer (*Gonzaga U.*), A. Goonewardene, W.J. Kossler, X. Wan (*Coll. of William & Mary*), E. Koster, D.Ll. Williams (*UBC*), D.R. Noakes, C.E. Stronach (*Virginia State U.*), A.T. Fiory (*New Jersey Inst. Tech.*), A. Erb (*Walther-Meissner-Inst. Tieftemperaturforschung, Garching*), J.P. Franck, I. Issac (*U. Alberta*), Z.F. Ren, D.Z. Wang (*Boston College*), R.N. Kleiman (*Bell Labs*), R.C. Haddon (*U. California, Riverside*), W. Kang (*U. Chicago*)
852. Magnetic phases in geometrically frustrated rare earth pyrochlores [active], R. Kiefl (*UBC-TRIUMF*), S. Dunsiger, B.D. Gaulin, (*McMaster U.*), M.J.P. Gingras (*U. Waterloo*), G.D. Morris, J.M. Roper (*Los Alamos Nat. Lab*), R. Miller (*U. Pennsylvania*), A.N. Price (*U. Erlangen-Nuernberg*), J.S. Gardner (*NIST*), S.T. Bramwell (*U. College London*), K. Chow (*U. Alberta*), J. Chakhalian (*MPI, Stuttgart*)
856. μ SR study on CuO [active], W. Higemoto, K. Nishiyama, K. Shimomura (*KEK*), M. Suzuki, S. Tanaka, N. Tsutsumi, X.G. Zheng (*Saga U.*)
857. Investigation of the magnetic properties of the cerium compound probed by negative muon [active], W. Higemoto, K. Nagamine, K. Nishiyama, K. Shimomura (*KEK*), V.V. Krishnamurthy (*RIKEN*)
858. Repolarization of muonic atom in semiconductors by laser optical pumping in solids [active], W. Higemoto, R. Kadono, K. Nagamine, K. Nishiyama K. Shimomura (*KEK*)

859. A search for non-Markovian μ^+ diffusion in solids: μ^+ spectral spin hopping in high transverse field [inactive], G. Alexandrowicz, A. Grayevsky, N. Kaplan, T. Tashma (*Racah Inst. Physics*), A. Schenck (*ETH Zürich*)
860. Mass and charge transport in disordered media: orientational glasses [completed], J.H. Brewer, A. Izadi, D.M.C. Liu, K.M. Nichol, S. Sivanandam, A.T. Warkentin (*UBC*), G.D. Morris (*TRIUMF*), V.G. Storchak (*Kurchatov Inst.*), D.G. Eshchenko (*INR, Moscow*), J.D. Brewer (*SFU*)
862. Polarization observables in the $\bar{p}(\pi^\pm, \pi^+, \pi^\pm)$ reactions: a test of chiral perturbation theory [completed data-taking], K. Craig, G. Hofman, M.M. Pavan, R. Tacik (*Regina-TRIUMF*), E. Mathie (*U. Regina*), J. Breitschopf, H. Denz, R. Meier, G. Wagner (*U. Tübingen*), E. Gibson (*California State U. Sacramento*), C.M. Riedel (*Montana State U. Bozeman*)
863. Magnetic dipole moments measurements of $^{75,77,79}\text{Ga}$ using low temperature nuclear orientation and β -NMR [completed data-taking], A.D. Davies, P.F. Mantica, T.J. Mertzimekis (*Michigan State U.*), C.A. Davis, P.P.J. Delheij (*TRIUMF*), B. Turrell (*UBC-TRIUMF*)
864. Measurement of the two-photon capture mode of the pionic deuterium atom [completed data-taking], S. Arole, T. Gorringer, C. Nenkov, S. Tripathi, P. Żohierczuk (*U. Kentucky*), D. Armstrong, J. Clark (*Coll. of William & Mary*), M. Hasinoff (*UBC*), D. Wright (*TRIUMF*)
865. Electronic structure and diffusion kinetics of muonium in group III nitrides [active], W. Higemoto, R. Kadono, K. Nishiyama, K. Shimomura (*KEK-IMSS*), M. Mizuta (*NEC Corp.*), M. Saito (*NEC Inf. Syst. Ltd.*)
866. $S = 0$ doping to the $1d$ spin chain: comparison between the $S = 1/2$ and $S = 1$ chains [active], I. Eisaki, K.M. Kojima, T. Masuda, S. Uchida, K. Uchinokura (*U. Tokyo*), Y. Fudamoto, I. Gat, M.I. Larkin, Y.J. Uemura (*Columbia U.*), G.M. Luke (*McMaster U.*)
867. μSR studies of magnetic properties of strontium/calcium ruthenates [active], Y. Fudamoto, I. Gat, M. Larkin, A. Savici, Y.J. Uemura (*Columbia U.*), G.M. Luke (*McMaster U.*), K. Kojima (*U. Tokyo*), S. Ikeda, Y. Maeno (*Kyoto U.*)
868. Magnetic correlations in impurity doped one dimensional spin systems [active], D. Baabe, H.-H. Klauss, W. Kopmann, F.J. Litterst, D. Mienert (*Tech. U. Braunschweig*), U. Ammerahl, B. Büchner (*U. Köln*), C. Geibel (*MPI Dresden*)
869. Measurement of the $^1\text{H}(\pi^-, \pi^0)n$ differential cross section at 100–140 MeV/ c and forward angles [completed data-taking], S. Arole, T. Gorringer, M. Kovash, S. Tripathi, P. Żohierczuk (*U. Kentucky*), M. Hasinoff (*UBC*), D. Armstrong (*Coll. of William & Mary*), M. Pavan (*TRIUMF*)
870. Breakout from the hot CNO cycle via the $^{18}\text{Ne}(\alpha, p)^{21}\text{Na}$ reaction [active], M. Aliotta, T. Davinson (*U. Edinburgh*), L. Buchmann, J. Pearson, C. Ruiz, G. Ruprecht, A.C. Shotter, P. Walden (*TRIUMF*), S.P. Fox, B.R. Fulton, A.M. Laird, R. Lewis, P. Mumby-Croft, K. Vaughn (*U. York*)
871. Meson and quark effects in nuclear β -decay of ^{20}Na [active], H. Fujiwara, M. Fukuda, K. Matsuta, M. Mihara, T. Minamisono, T. Nagatomo, M. Ogura, T. Sumikama (*Osaka U.*), R. Baartman, J. Behr, P. Bricault, M. Dombisky, K.P. Jackson, P. Levy (*TRIUMF*), R. Kiefl (*UBC*), K. Koshigiri (*Osaka Kyoiku U.*), M. Morita (*Josai Int. U.*), K. Minamisono (*JSPS-TRIUMF*)
872. Weak interaction studies with trapped radioactive ions [active], J. Dilling, D. Melconian (*SFU*), G. Savard (*Argonne Nat. Lab-U. Chicago*), G.C. Ball, J.A. Behr, P. Bricault, K.P. Jackson (*TRIUMF*), F. Buchinger, J.E. Crawford, J.K.P. Lee, R.B. Moore (*McGill U.*), K.S. Sharma (*U. Manitoba*)
874. Study of ^{19}Ne α -decay properties related to the hot-CNO breakout reaction $^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}$ [active], T. Davinson, D. Groombridge, A.M. Laird, A.N. Ostrowski, F. Sarazin, K. Schmidt, A.C. Shotter, P.J. Woods (*U. Edinburgh*), L. Buchmann (*TRIUMF*), S. Cherubini, P. Leleux (*U. Catholique de Louvain*), J. Hinnefeld (*U. South Bend*)
875. Muon scattering in low Z materials for muon cooling studies [complete], M. Curtis-Rouse, T.R. Edgecock, M. Ellis, J. Lidbury, W. Murray, P.R. Norton, K.J. Peach (*Rutherford Appleton Lab*), K. Ishida, Y. Matsuda, K. Nagamine, S. Nakamura (*RIKEN*), D. Attwood, P. Bell, S. Bull, T. McMahon, J.A. Wilson (*Birmingham U.*), A. Jamdagni, K. Long, E. McKigney, P. Savage (*Imp. Coll., London*), S. Holmes (*U. Oxford*), S. Benveniste, D. Cline, Y. Fukui, K. Lee, Y. Pischalnikov (*UCLA*), R. Fernow (*Brookhaven Nat. Lab*), P. Gruber (*CERN*), G.M. Marshall (*TRIUMF*), A. Bogacz (*Jefferson Lab*)
876. Disordered magnetism near magnetic instabilities in f -electron materials [completed], D.R. Noakes, C.E. Stronach (*Virginia State U.*), G.M. Kalvius (*Tech. U. Munich*), A. Loidl (*Augsburg U.*), H. Nakotte (*New Mexico State U.*), R. Wäppling (*Uppsala U.*), A.V. Andreev (*Charles U.*)
877. μSR studies of strongly correlated electron systems under a high pressure [active], W. Higemoto, R. Kadono, A. Koda, K. Nishiyama (*KEK-MSL*), K. Satoh (*Saitama U.*), Y. Kitaoka, K. Ishida (*Osaka U.*), K. Nagamine (*RIKEN-KEK-MSL*)

48

50

878. μ^+ SR studies on magnetism of layered compounds $\text{Cu}_2(\text{OH})_3\text{X}$ ($\text{X}=\text{Cl}, \text{Br}, \text{I}$) [active], G. Maruta, K. Nishiyama (*KEK-MSL*), S. Takeda (*Gunma U.*)
879. Proton- ^{21}Na elastic scattering at astrophysical energies [completed data-taking], L. Buchmann (*TRIUMF*), T. Davinson, A. Ostrowski, F. Sarazin, A. Shotter, P. Woods (*U. Edinburgh*), R.E. Azuma, J.D. King (*U. Toronto*), A. Chen (*TRIUMF-SFU*), J. Daly, J. Görres, M. Wiescher (*U. Notre Dame*), J. D'Auria (*SFU*), E.S. Konobeevsky, M.V. Mordovskoy, V.A. Simonov, A.V. Stepanov, V.P. Zavarzina (*INR, Moscow*)
880. Ortho-para effect of muon catalyzed fusion in solid deuterium [completed], K. Ishida, Y. Matsuda (*RIKEN*), K. Nagamine, K. Shimomura, A. Toyoda (*KEK*), S.N. Nakamura (*Tohoku U.*)
881. Magnetism of Ce-based heavy fermion superconductor [active], R. Kadono, A. Koda, K. Ohishi, S.R. Saha (*KEK-IMSS*), Y. Haga, W. Higemoto, T.D. Matsuda, Y. Onuki (*JAEA-ASRC*)
882. μ SR studies of unconventional superconductivity in an organic superconductor $(\text{TMTSF})_2\text{ClO}_4$ [active], I.M. Gat, M.I. Larkin, A. Savici, Y.J. Uemura (*Columbia U.*), T. Ito (*Columbia U.-ETL*), P. Kyriakou, G.M. Luke, M. Rovers (*McMaster U.*), K.M. Kojima (*U. Tokyo*), P.M. Chaikin, I.J. Lee (*Princeton U.*), M.J. Naughton (*Boston Coll.*)
883. Muonium-substituted methyl and associated free radicals [active], J.-C. Brodovitch, B. McCollum, P.W. Percival (*SFU*), K. Ghandi (*Mount Allison U.*), I. McKenzie (*U. Stuttgart*), B. Addison-Jones (*Douglas College*)
884. μ SR studies on magnetic ground state of $S = 1/2$ kagomé spin system $\text{Cu}_3\text{V}_2\text{O}_7(\text{OH})\cdot 2\cdot 2\text{H}_2\text{O}$ [active], A. Fukaya, I.M. Gat, M.I. Larkin, A. Savici, Y.J. Uemura (*Columbia U.*), T. Ito (*CERC-AIST*), A. Keren (*Technion-Israel Inst. Tech.*), P.P. Kyriakou, G.M. Luke, M.T. Rovers (*McMaster U.*), Z. Hiroi (*U. Tokyo*)
885. High-TF line-shape measurement of impurity-doped high- T_c cuprates [active], K.M. Kojima, Y. Kojima, Y. Maeda, T. Okamura, S. Uchida (*U. Tokyo*), I. Gat, T. Itoh, A. Kinkhabwala, M.I. Larkin, Y.J. Uemura (*Columbia U.*), G.M. Luke (*McMaster U.*), S.R. Dunsiger, R.F. Kiefl, R. Miller (*UBC*), J.E. Sonier (*Los Alamos Nat. Lab*)
886. Study of field dependent T_1 relaxation and coexistence of order parameters in the (anti)ferromagnetic ruthenate-cuprate superconductors $\text{RuSr}_2(\text{Gd}, \text{Eu}, \text{Y})\text{Cu}_2\text{O}_8$ [active], C. Bernhard (*Max Planck Inst.*), C. Niedermayer, V. Oehmichen (*U. Konstanz*), E.J. Ansaldo (*U. Saskatoon*), J.L. Tallon (*NZIRD*)
887. Search for broken time reversal symmetry in high temperature superconductors [active], P. Kyriakou, G.M. Luke, M. Rovers (*McMaster U.*), R.H. Heffner (*Los Alamos Nat. Lab*), M.I. Larkin, Y.J. Uemura (*Columbia U.*), J. Sonier (*SFU*), K.M. Kojima (*U. Tokyo*)
888. Test of delayed-muonium model for hydrocarbon liquids [completed], D.C. Walker (*UBC-TRIUMF*), H.A. Gillis (*St. Francis Xavier U.*), G.B. Porter (*UBC*), S. Karolczak (*Politechnika, Poland*)
889. Study of field induced gap in Cu benzoate [active], Y. Ajiro, T. Asano, Y. Inagaki (*Kyushu U.*), H. Nojiri (*Tohoku U.*), W. Higemoto, R. Kadono, A. Koda (*KEK-IMSS*)
890. Anisotropic Kondo effect in $\text{Ce}_{0.8}\text{La}_{0.2}\text{Al}_3$? [completed], D.E. MacLaughlin (*U. California, Riverside*), O.O. Bernal (*Cal. State U., Los Angeles*), R.H. Heffner (*Los Alamos Nat. Lab*), G.M. Luke (*McMaster U.*), G.J. Nieuwenhuys (*U. Leiden*), J.E. Sonier (*SFU*), B. Andraka (*U. Florida*)
891. Superconductivity and magnetism in $\text{Ce}_n\text{T}_m\text{In}_{3n+2m}$ [active], R.H. Heffner, G.D. Morris, J. Sarrao (*Los Alamos Nat. Lab*), J.E. Sonier (*SFU*), D.E. MacLaughlin (*U. California, Riverside*), G.J. Nieuwenhuys (*U. Leiden*), O.O. Bernal (*Cal. State U., Los Angeles*)
892. Resonance ionization spectroscopy of stable and radioactive nuclides at TISOL [deferred] F. Buchinger, J.E. Crawford, S. Gulick, J.K.P. Lee (*McGill U.*), K. Sharma (*U. Manitoba*), J. Pinard (*Lab Aimé Cotton, Orsay*)
893. Hyperfine field of Rb in the ferromagnets Fe, Ni, Co [active], P. Bricault, C.A. Davis, P.P.J. Delheij, B. Roberts, (*TRIUMF*), K. Nishimura (*Toyoma U.*), S. Ohya (*Niigata U.*), E. Rezaie (*UBC*)
894. Muonium kinetics and free radical formation in solutions of fullerenes [active], B. Addison-Jones (*Douglas College*), J.-C. Brodovitch, S. Kecman, I. McKenzie, P.W. Percival (*SFU*)
895. The vortex structure and magnetism of electron-doped cuprate superconductors [active], K.M. Kojima, S. Uchida (*U. Tokyo*), W. Higemoto, R. Kadono, A. Koda (*KEK*), M. Azuma, M. Fujita, M. Takano, K. Yamada (*Kyoto U.*), K. Ishida, Y. Kawasaki, Y. Kitaoka (*Osaka U.*), M.I. Larkin, Y.J. Uemura (*Columbia U.*)
896. Investigation of spin liquid behaviour in chromium and manganese spinels [completed], H. Dabkowska, J. Greedan, P.P. Kyriakou, G.M. Luke, M.T. Rovers (*McMaster U.*), I.M. Gat, M.I. Larkin, A.T. Savici, Y.J. Uemura (*Columbia U.*), K.M. Kojima (*U. Tokyo*)

897. Absolute magnetic penetration depth in the Meissner state of superconductors measured with low frequency beta-NMR [active], D. Bonn, J.H. Brewer, K.H. Chow, W. Hardy, R. Liang, R. Miller, G. Morris (*UBC*), S. Dunsiger, B. Heffner (*Los Alamos Nat. Lab*), R.F. Kiefl (*UBC-TRIUMF*), S. Kreitzman, P. Levy (*TRIUMF*), G. Luke (*McMaster U.*), J. Sonier (*SFU*), C. Stronach (*Virginia State U.*)
898. MULTI development with applications in superconductors and semiconductors [completed], P. Amadruz, D. Arseneau, S. Chan, K.H. Chow, B. Hitti, G. Morris, R. Poutissou (*TRIUMF*), J. Chakhalian, S. Dunsiger, R.F. Kiefl, R. Miller (*UBC*)
900. A determination of the $\alpha+^{15}\text{O}$ radiative capture rate by a measurement of the $^{15}\text{O}(^6\text{Li},d)^{19}\text{Ne}$ reaction [active], B.R. Fulton, B. Greenhalgh, J. Pearson, D.L. Watson (*U. York*), N.M. Clarke (*U. Birmingham*), T. Davinson, N. Farrington, P. Monroe, C. Ruiz, F. Sarazin, K. Schmidt, A.C. Shotter, P.J. Woods (*U. Edinburgh*), L. Buchmann, P. Walden (*TRIUMF*), J. D'Auria (*SFU*)
902. Muon capture on ^{45}Sc , ^{51}V , ^{55}Mn and ^{59}Co [active], D.F. Measday (*UBC*), T.P. Gorrige (*U. Kentucky*)
903. Spectroscopic study of ^{11}Be with polarized ^{11}Li beam [active], A. Hatakeyama, Y. Hirayama, H. Izumi, T. Shimoda, M. Yagi, H. Yano (*Osaka U.*), H. Miyatake (*IPNS, KEK*), K.P. Jackson, C.D.P. Levy (*TRIUMF*)
907. Improving $S_{E1}(300)$: the $\beta - \alpha$ branching ratio of ^{16}N [deferred] R.E. Azuma, J.D. King (*U. Toronto*), L. Buchmann (*TRIUMF*)
909. Isospin symmetry breaking in superallowed Fermi beta decays [active], C. Andreoiu, D. Bandyopadhyay, P. Finlay, P.E. Garrett, G.F. Grinyer, B.H. Hyland, K.G. Leach, A.A. Phillips, M.A. Schumaker, C.E. Svensson, J. Wong (*U. Guelph*), J.A. Cameron, J.C. Waddington (*McMaster U.*), A.N. Andreyev, G.C. Ball, P. Bricault, R.S. Chakrawarthy, G. Hackman, R. Kanungo, A.C. Morton, C.J. Pearson (*TRIUMF*), R.A.E. Austin (*St. Mary's U.*), J.C. Hardy, V.E. Jacob (*Texas A&M U.*), J.R. Leslie (*Queen's U.*), J.L. Wood, W.D. Kulp (*U. Georgia*), A. Piechaczek, E.F. Zganjar (*Louisiana State U.*), P.M. Walker (*U. Surrey*), F. Sarazin (*U. Colorado*), J. von Schwarzenberg (*U. Vienna*)
910. Study of the ground state proton emitter ^{73}Rb and implications for the astrophysical rp-process [active], A. Piechaczek, E.F. Zganjar (*Louisiana State U.*), G.C. Ball (*TRIUMF*), J.C. Batchelder (*Oak Ridge Assoc. U.*), D. Kulp, B.D. MacDonald, J.L. Wood (*Georgia Inst. Tech.*)
911. Test of aerogel proto-type detector for $G\emptyset$ phase II [active], J. Birchall, W. Falk, L. Lee, S. Page, W.D. Ramsay, A. Rauf, G. Rutledge, W.T.H. van Oers (*U. Manitoba*), C. Davis (*TRIUMF*), L. Hannelius, J. Martin (*Caltech*), E. Korkmaz, T. Porcelli (*UNBC*), S. Kox, G. Quemener, R. Tieulent (*ISN Grenoble*), D. Beck (*U. Illinois, Urbana*)
912. Formation, structure, and dynamics of muonium in GaAs studied by EF-ALC-RF $\mu^+\text{SR}$ [active], B. Hitti, S.R. Kreitzman (*TRIUMF*), K.H. Chow (*U. Alberta*), J.H. Brewer (*UBC*), D.G. Eshchenko (*U. Zurich-PSI*), V.G. Storchak (*Kurchatov Inst.*)
913. Photo-induced dynamics and reactivity of spin polarized ^8Li in semiconductors [active], K.H. Chow (*U. Alberta*), T. Beals, R.F. Kiefl, R.I. Miller (*UBC*), P. Amadruz, D. Arseneau, S. Daviel, B. Hitti, S.R. Kreitzman, P. Levy, R. Poutissou (*TRIUMF*), R.L. Lichti (*Texas Tech. U.*), G.D. Morris (*Los Alamos Nat. Lab*), C. Bommas (*U. Bonn*)
914. Zero-field μSR in Bi2212 and Bi2201 searching for effects related to the pseudo-gap [active], M. Greven, N. Kaneko, (*Stanford U.*), I.M. Gat, M.I. Larkin, P.L. Russo, A. Savici, Y.J. Uemura, emph(*Columbia U.*), G.M. Luke, G.J. MacDougall, C.R. Wiebe (*McMaster U.*), Y. Ando (*U. Tokyo*)
915. Muonium in semiconductor alloys [completed], R.L. Lichti (*Texas Tech. U.*), P.J.C. King (*Rutherford Appleton Lab*), I. Yonenaga (*Tohoku U.*)
916. QLCR of diamagnetic states in GaP [completed], R.L. Lichti, W. Nusbaum (*Texas Tech. U.*), K.H. Chow (*U. Alberta*), S.F.J. Cox (*Rutherford Appleton Lab*), B. Hitti (*TRIUMF*)
917. Correlation between magnetism and transport properties of thermoelectric oxides [active], Y. Ikeda K. Mukai, H. Nozaki (*Toyota Central R&D Labs Inc.*), E.J. Ansaldo, G.D. Morris (*TRIUMF*), A. Asamitsu, T. Fujii (*U. Tokyo*), T. Kajitani, Y. Miyazaki, Y. Ono (*Tohoku U.*)
918. High field study of La_2CuO_4 based superconductors [active], I.M. Gat, M.I. Larkin, P.L. Russo, A.T. Savici, Y.J. Uemura (*Columbia U.*), G.M. Luke, G.J. MacDougall (*McMaster U.*), K.M. Kojima, S. Uchida (*U. Tokyo*), T. Ito (*AIST, Tsukuba*), K. Yamada (*Kyoto U.*), M. Greven, M. Kaneko (*Stanford U.*), M.A. Kastner, Y.S. Lee (*MIT*), R.J. Birgeneau (*U. Toronto*), R. Kadono (*KEK*), S. Tajima (*ISTEC*), C.R. Wiebe (*Florida State U.*)
919. Proton irradiation effects in SOI devices [active], P. Dodd, G. Hash, R. Loemker, J. Schwank, M. Shaneyfelt (*Sandia Nat. Lab*), V. Ferlet-Cavrois, P. Paillet (*CEA, France*)

57

100

104

920. Nuclear charge radii and moments of short lived neutron deficient Lanthanum isotopes [active], H.A. Schuessler (*Texas A&M U.*), P. Levy (*TRIUMF*), H. Iimura (*Japan Atomic Energy Res. Inst.*), F. Buchinger, J. Crawford, J. Lee (*McGill U.*), R.I. Thompson (*U. Calgary*) 59
921. High-K isomers in neutron-rich $A = 170\text{--}190$ nuclei [active], S.A. Ashley, G.A. Jones, P.M. Walker, S.J. Williams (*U. Surrey*), A. Andreyev, G.C. Ball, J.J. Daoud, G. Hackman, R. Kanungo, A.C. Morton, C.J. Pearson, M.B. Smith (*TRIUMF*), R.S. Chakrawarthy (*TRIUMF-SFU*), G. Grinyer, C.E. Svensson (*U. Guelph*), P.E. Garrett (*U. Guelph-TRIUMF*), R.A.E. Austin (*St. Mary's U.*), E.F. Zganjar (*Louisiana State U.*), J.A. Becker (*Lawrence Livermore Nat. Lab.*), D.S. Cross, W.J. Mills, J.J. Ressler (*SFU*), Y. Litvinov (*GSF Darmstadt*), J.J. Carroll, D. Gohlke, R. Propri (*Youngstown State U.*), R. Wheeler (*Youngstown State U.-U. Surrey*), W.D. Kulp (*Georgia Inst. Tech.*) 61
922. On the production of ^{26}Al in novae: measurement of the $^{25}\text{Al}(p,\gamma)^{26}\text{Si}$ reaction rate [pending], S. Bishop, A.A. Chen, J.M. D'Auria, D. Hunter, M. Lamey, C. Wrede (*SFU*), L. Buchmann, D.A. Hutcheon, K.P. Jackson, A. Olin, J. Rogers (*TRIUMF*), S. Engel (*Ruhr-U. Bochum*), C.S. Galovich (*U. Northern Colorado*), D. Gigliotti, A. Hussein (*UNBC*), U. Greife, C.C. Jewett (*Colorado School of Mines*), J. José (*UPC/IEEC Barcelona*), P.D. Parker (*Yale U.*)
923. Measurement of $^{25}\text{Al} + p$ resonances through elastic scattering [active], A.A. Chen, J.M. D'Auria (*SFU*), L. Buchmann, F. Sarazin, A. Shotter, P. Walden (*TRIUMF*), T. Davinson, A. Murphy, I. Roberts, A. Robinson, C. Ruiz, P. Woods (*U. Edinburgh*), B. Fulton, D. Groombridge, J. Pearson (*U. York*), P.D. Parker (*Yale U.*)
924. The hot CNO cycle and the $^{14}\text{O}(\alpha,p)^{17}\text{F}$ reaction [active], M. Aliotta, T. Davinson, A. Murphy, I. Roberts, A. Robinson, P.J. Woods (*U. Edinburgh*), L. Buchmann, A. Chen, P. Walden (*TRIUMF*), B. Fulton, D. Groombridge, J. Pearson (*U. York*), P. Leleux (*U. Catholique de Louvain*), R. Azuma (*U. Toronto*)
925. Isospin mixing in ^{36}Ar via spin-polarized observables in ^{36}K β^+ decay [inactive], J.M. D'Auria, D. Melconian (*SFU*), G.C. Ball, J.A. Behr, P. Bricault, M. Dombisky, K.P. Jackson (*TRIUMF*), S. Gu, M. Pearson (*UBC*), W.P. Alford (*U. Western Ontario*), D.A. Ashery, O. Aviv (*Tel Aviv U.*), I.A. Towner (*Queen's U.*), S. Karataglidis (*Los Alamos Nat. Lab.*), B.A. Brown (*Michigan State U.*)
926. Measurement of charge radius and β^+ -decay Q-value of laser-trapped ^{74}Rb [inactive], S. Gu, M. Pearson (*UBC*), J.A. Behr, P. Bricault, M. Dombisky, K.P. Jackson (*TRIUMF*), D. Melconian (*SFU*), D.A. Ashery, O. Aviv (*Tel Aviv U.*)
927. Using ($^3\text{He},p$): spectroscopy of proton unbound ^{19}Na [active], G.C. Ball, L. Buchmann, G. Hackman, A. Laird, F. Sarazin, A. Shotter, P. Walden (*TRIUMF*), A.A. Chen (*SFU*), T. Davinson, I. Roberts, A. Robinson, C. Ruiz, P. Woods (*U. Edinburgh*), B. Fulton, D. Groombridge, J. Pearson (*U. York*), C.E. Svensson (*U. Guelph*), J. Waddington (*McMaster U.*)
928. Level structure of ^{21}Mg : nuclear and astrophysical implications [active], M. Aliotta, T. Davinson, A.St.J. Murphy, A. Robinson, P.J. Woods (*U. Edinburgh*), J.M. D'Auria (*SFU*), R. Azuma (*U. Toronto*), R. Boyd (*Ohio State U.*), L. Buchmann, A. Chen, D. Hutcheon, A. Laird, P. Walden (*TRIUMF*), B. Fulton (*U. York*)
929. Octupole deformation and spin-exchange polarization of odd- A radon isotopes: toward radon electric dipole moment measurements at ISAC [active], P. Finlay, B. Hyland, A.A. Phillips, M.A. Schumaker, C.E. Svensson (*U. Guelph*), T.E. Chupp, K.P. Coulter, S.R. Nuss-Warren, E.R. Tardiff (*U. Michigan*), G.C. Ball, J.A. Behr, G.S. Hackman, M.R. Pearson, M.B. Smith (*TRIUMF*), M.E. Hayden, T. Warner (*SFU*) 62
930. Measurement of π^- absorption in water [completed data-taking], T. Awes, V. Cianciolo, G. Young (*Oak Ridge Nat. Lab.*), S. Berridge, W. Bugg, Yu. Efremenko, R. Gearhart, Yu. Kamyshev, S. Ovchinnikov (*U. Tennessee*), Yu. Davydov, T. Numao, J.-M. Poutissou (*TRIUMF*) 64
931. Magnetic properties of multinuclear, open-shell coordination complexes and polymers probed by μSR [active], F.D. Callaghan, N. Draper, C.V. Kaiser, M. Laulajainen, J. LeFebvre, D.B. Leznoff, C. Shorrocks, J.E. Sonier (*SFU*)
932. Improving μ^- SR performance [active], J.H. Brewer, S.L. Stubbs (*UBC*), K. Ghandi (*UBC-TRIUMF*), D. Arseneau, B. Hitti, S.R. Kreitzman (*TRIUMF*) 104
933. Effects of nonlocality in superconductors [completed data-taking], R. Miller, R. Kiefl (*UBC-TRIUMF*), S.L. Bud'ko, P. Canfield, V. Kogan (*Iowa State U.*), P. Poon, J.E. Sonier (*SFU*)
934. μSR study of polymerized C_{60} [active], A. Fukaya, I.M. Gat, P.L. Russo, A.T. Savici, Y.J. Uemura (*Columbia U.*), P. Kyriakou, G.M. Luke (*McMaster U.*), T. Makarova, B. Sundqvist (*Umea U. Sweden*), V.A. Davydov (*Moscow Inst. High Pressure*), T. Ito (*AIST, Tsukuba*)
935. High pressure study of URu_2Si_2 [active], J. Garrett, P. Kyriakou, G.M. Luke, C. Wiebe (*McMaster U.*), I.M. Gat, A. Savici, Y.J. Uemura (*Columbia U.*), Y. Sushko (*U. Kentucky*), K.M. Kojima (*U. Tokyo*)

936. Magnetic dynamics in spin ice systems [active], S.T. Bramwell, J. Lago (*U. College London*), S.R. Dunsiger (*Los Alamos Nat. Lab*), J.S. Gardner (*NRC*), M.J.P. Gingras (*U. Waterloo*), R. Kiefl (*UBC-TRIUMF*), G.M. Luke (*McMaster U.*)
937. Muonium in hexagonal semiconductors [completed data-taking], R.L. Lichti (*Texas Tech. U.*), K.H. Chow (*U. Alberta*), S.F.J. Cox (*Rutherford Appleton Lab*), B. Hitti (*TRIUMF*)
938. Muonium formation and ionization in semiconductors and insulators [active], J.H. Brewer, A.M. Froese, R. Moldovan, S.L. Stubbs, A.G. Uy (*UBC*), B. Hitti (*TRIUMF*), Z.M. Salman (*TRIUMF-UBC*), R. Lichti (*Texas Tech. U.*), D.G. Eshchenko (*PSI*), B.A. Aronzon, V.G. Storchak (*Kurchatov Inst.*), S.P. Cottrell (*Rutherford Appleton Lab*) 106
939. Guest-host interactions and Hfcs of mu-radicals in zeolites [active], M. Bridges, D.G. Fleming, C. Fyfe, G. Patey, A. Wang (*UBC*), D. Arseneau (*TRIUMF*), K. Ghandi (*TRIUMF-UBC*), E. Roduner (*U. Stuttgart*), M. Senba (*Dalhousie U.*)
940. Thermoelectrics II: μ SR in layered manganese oxides [completed data-taking], K. Dohmae, H. Itahara, Y. Seno, J. Sugiyama, T. Tani, C. Xia (*Toyota Central R&D Labs Inc.*), J.H. Brewer (*UBC*), E.J. Ansaldo (*U. Saskatchewan*), B. Hitti (*TRIUMF*)
941. Investigation of spin dynamics in geometrically frustrated transition metal oxides [active], J.E. Greedan, G.M. Luke, G. MacDougall, C.R. Wiebe (*McMaster U.*), P. Russo, A. Savici, Y.J. Uemura (*Columbia U.*)
942. Magnetic fluctuations near metal insulator transitions in ruthenate pyrochlores [active], N. Hur, K.H. Kim, J. Thompson (*Los Alamos Nat. Lab*), S.R. Dunsiger (*McMaster U.*), R.F. Kiefl (*UBC-TRIUMF*), K.H. Chow (*U. Alberta*), M.J.P. Gingras (*U. Waterloo*), Z. Salman (*UBC*), F. Callaghan (*SFU*), S.W. Cheong, (*Rutgers U.-Lucent Tech.*), G.D. Morris (*TRIUMF*)
943. Muonium and muoniated free radical formation and reactivity in sub- and supercritical carbon dioxide [completed], D.J. Arseneau (*TRIUMF*), D.G. Fleming (*UBC*), K. Ghandi (*Mount Allison Univ.*) 107
944. Muonium sites and dynamics in silicon carbide [active], H.N. Bani-Salameh, B.R. Carroll, B.E. Coss, R.L. Lichti (*Texas Tech. U.*), K.H. Chow, (*U. Alberta*) 108
945. Muoniated radicals formed from carbenes and carbene analogues [active], J.-C. Brodovitch, J.A.C. Clyburne, D. Dickie, B. McCollum, P.W. Percival, T. Ramnial (*SFU*), I. McKenzie (*U. Stuttgart*), K. Ghandi (*Mt. Allison U.*) 109
946. Energy generation and nucleosynthesis in the HotCNO cycles: measurement of the $^{17}\text{F}(p,\gamma)^{18}\text{Ne}$ reaction rate [active], A.A. Chen (*McMaster U.-TRIUMF*), S. Bishop, J.M. D'Auria, M. Lamey, C. Wrede (*SFU*), L. Buchmann, D.A. Hutcheon, A. Olin, D. Ottewell, J. Rogers (*TRIUMF*), S. Engel (*Ruhr-Universität Bochum*), D. Gigliotti, A. Hussein (*UNBC*), U. Greife, C.C. Jewett (*Colorado School of Mines*), J. José (*UPC/IEEC Barcelona*), P.D. Parker (*Yale U.*)
947. Evaluation of the competition between single-step and multi-step γ decay in the $^{12}\text{C}(^{12}\text{C}, \gamma)$ reaction [active], T. Brown, S.P. Fox, B.R. Fulton, D. Groombridge, D.G. Jenkins, J. Pearson, R. Wadsworth, D.L. Watson (*U. York*), L. Buchmann, C. Davis, D. Hutcheon, S. Park, J. Rogers (*TRIUMF*), J.M. D'Auria (*SFU*), U. Greife (*Colorado School of Mines*), M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, C.J. Lister, A.H. Wuosmaa (*Argonne Nat. Lab*), M. Freer (*U. Birmingham*), F. Azaiez, C. Beck, F. Haas, P. Papka, A. Sanchez (*IREs Strasbourg*), C. Andreoiu, M. Chartier, R.-D. Herzberg (*U. Liverpool*)
948. Proton radiation effects in silicon-on-insulator and bulk-silicon devices [active], P. Dodd, G. Hash, R. Jones, J. Schwank, M. Shaneyfelt (*Sandia Nat. Labs*), V. Ferlet-Cavroi, C. D'Hose, P. Paillet, J.-E. Sauvestre (*CEA, France*), E. Blackmore (*TRIUMF*) 65
949. μ SR study of magnetic order in high- T_c superconductor under high pressure [active], J. Arai, T. Goko, K. Sato, S. Takeshita (*Tokyo U. of Science*), W. Higemoto, K. Nagamine, K. Nishiyama (*KEK-MSL*)
950. High field study of Zn doped/Eu doped/overdoped systems [active], I.M. Gat, M.I. Larkin, P.L. Russo, A.T. Savici, Y.J. Uemura (*Columbia U.*), G.M. Luke, G.J. MacDougall (*McMaster U.*), K.M. Kojima, S. Uchida (*U. Tokyo*), T. Ito (*AIST, Tsukuba*), K. Yamada (*Kyoto U.*), M. Greven, M. Kaneko (*Stanford U.*), M.A. Kastner, Y.S. Lee (*MIT*), R.J. Birgeneau (*U. Toronto*), R. Kadono (*KEK*), S. Tajima (*ISTEC*), C.R. Wiebe (*Florida State U.*) 111
951. Magnetism and flux line lattice structure of oxchloride superconductors [active], W. Higemoto, R. Kadono, A. Koda, K. Ohishi (*KEK-IMSS*), M. Azuma, M. Takano, I. Yamada (*Kyoto U.*), K.M. Kojima (*U. Tokyo*)
952. $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ at DRAGON [active], C. Barbieri, L. Buchmann, D. Hutcheon, A.M. Laird, A. Olin, M. Pavan, J. Rogers, C. Ruiz, F. Sarazin, J.M. Sparenberg (*TRIUMF*), C.R. Brune (*U. Ohio*), A. Chen (*McMaster U.*), J.M. D'Auria (*SFU*), J. Görres, M. Wiescher (*U. Notre Dame*), U. Greife (*Colorado School of Mines*), A.

- Hussein (*UNBC*), Z. Li, W. Liu (*Chinese Inst. of Atomic Energy*), A. Murphy (*U. Edinburgh*), S. Woosley (*U. California, Santa Cruz*), H.O. Meyer (*IUCF*)
953. Spin dynamics and quantum coherence in molecular magnets [active], Z. Salman (*TRIUMF*), A. MacFarlane, R. Kiefl (*UBC-TRIUMF*), K. Chow (*U. Alberta*), S. Dunsiger (*Los Alamos Nat. Lab*), B. Barbara (*Lab de Magnetisme Louis Néel*)
954. Half-lives of long-lived isotopes/chronology and environment [active] R.A.E. Austin, A. Chen, K.A. Koopmans, M. Lee, N. Novo, B. Singh, J.C. Waddington (*McMaster U.*), G.C. Ball, G. Hackman, F. Sarazin, H. Scraggs, M.B. Smith (*TRIUMF*), P.E. Garrett (*Lawrence Livermore Nat. Lab*), G. Grinyer, C.E. Svensson (*U. Guelph*)
955. Probing shell structure with β - and β - n -delayed γ spectroscopy [active], G.C. Ball, P. Bricault, M. Dombisky, G. Hackman, J. MacDonald, F. Sarazin, H. Scraggs, M.B. Smith (*TRIUMF*), G. Grinyer, C.E. Svensson (*U. Guelph*), J.C. Waddington (*McMaster U.*), E. Zganjar (*Louisiana State U.*), W.D. Kulp, J. Wood (*Georgia Inst. Tech.*), P.E. Garrett (*Lawrence Livermore Nat. Lab*), P. Walker (*U. Surrey-TRIUMF*) 72
956. Search for tensor interactions in recoil nucleus singles in decay of polarized ^{80}Rb [active], J.A. Behr, P. Bricault, M. Dombisky, K.P. Jackson, M.R. Pearson (*TRIUMF*), A. Gorelov, D. Melconian (*SFU*), D. Ashery (*Tel Aviv U.*), R. Pitcairn, E. Prime, D. Roberge (*UBC*), G. Gwinner (*U. Manitoba*) 73
957. Search for high-spin isomeric states in the vicinity of double-magic $N = Z$ ^{100}Sn [active], G.C. Ball, G.S. Hackman, F. Sarazin, H.C. Scraggs, M.B. Smith (*TRIUMF*), P.M. Walker (*U. Surrey*), C.E. Svensson (*U. Guelph*), J.C. Waddington (*McMaster U.*), E. Zganjar (*Louisiana State U.*), P.E. Garrett (*Lawrence Livermore Nat. Lab*), J.L. Wood (*Georgia Inst. Tech.*)
958. HTF- μ^+ SR lineshapes in overdoped high- T_c superconductors [active], D.A. Bonn, J.H. Brewer, W.N. Hardy, R.X. Liang, D. Peets, S. Stubbs (*UBC*), F.D. Callaghan, M. Laulajainen, J.E. Sonier (*SFU*), A.T. Savici (*McMaster U.*), C.E. Stronach (*Virginia State U.*), E.J. Ansaldo (*U. Saskatoon*) 112
959. New low field integral method for studies of diamagnetic muonium centers in group IV and II-VI semiconductors [active], K.H. Chow, K. Hoffman (*U. Alberta*), B. Hitti (*TRIUMF*), J.M. Gil (*U. Coimbra*), R.F. Kiefl (*UBC*)
960. Hydrogen (Mu) defect level in II-VI chalcogenides [completed data-taking], H.V. Alberto, N. Ayres de Campos, J.P. Duarte, J.M. Gil, R.C. Vilao (*U. Coimbra*), K.H. Chow (*U. Alberta*), S.F.J. Cox (*Rutherford Appleton Lab*), B. Hitti (*TRIUMF*), R.L. Lichti (*Texas Tech. U.*), A. Weidinger (*HMI/Berlin*)
961. $A \geq 62$ super-allowed Fermi β decays: constraining unknown corrections with ^{66}As and ^{70}Br decay [active], P.E. Garrett, W.E. Ormand, A. Schiller (*Lawrence Livermore Nat. Lab*), G.F. Grinyer, C.E. Svensson (*U. Guelph*), R.A.E. Austin, J.C. Waddington (*McMaster U.*), G.C. Ball, G. Hackman, F. Sarazin, H.C. Scraggs, M.B. Smith (*TRIUMF*), J. Allmond, W.D. Kulp, J.L. Wood (*Georgia Inst. Tech.*), A. Piechaczek, E. Zganjar (*Louisiana State U.*)
962. μSR study on $\text{Na}_{0.33}\text{V}_2\text{O}_5$ [active], P.L. Russo, A.T. Savici, Y.J. Uemura (*Columbia U.*), G.M. Luke, C.R. Wiebe (*McMaster U.*), Y. Ueda, T. Yamauchi (*ISSP U. Tokyo*)
963. Underdoped/undoped cuprate single crystals [active], D.A. Bonn, J.H. Brewer, W.N. Hardy, R.F. Kiefl, R.X. Liang (*UBC*), F. Callaghan, K.F. Poon, J.E. Sonier (*SFU*), G.M. Luke (*McMaster U.*), R.L. Greene (*Maryland U.*), P. Fournier (*U. Sherbrooke*), C.E. Stronach (*Virginia State U.*), R.I. Miller (*Pennsylvania State U.*)
964. A study of the partial and total cross sections of the $^8\text{Li}(\alpha, n)^{11}\text{B}$ reaction at astrophysically relevant energies [deferred], P. Amaudruz, L. Buchmann, D. Gigliotti, T. Kirchner, R. Openshaw, M. Pavan, J. Pearson, G. Ruprecht P. Walden (*TRIUMF*), S.P. Fox, B. Fulton, A.M. Laird, P. Mumby-Croft (*U. York*) 75
965. Investigation of spin statics and dynamics in the new dipolar spin ice $\text{Ho}_2\text{Ru}_2\text{O}_7$ [active], J.E. Greedan, S.J. Kim, G.M. Luke, G. MacDougall, C.R. Wiebe (*McMaster U.*), M.J.P. Gingras (*U. Waterloo*), P. Russo, A. Savici, Y.J. Uemura (*Columbia U.*)
966. High precision mass determination for CVC tests [active], P. Bricault, J. Dilling, J. Vaz (*TRIUMF*), K. Sharma (*U. Manitoba*), M. Trinczek (*MPI-K-TRIUMF*), M. Smith (*UBC-TRIUMF*), F. Buchinger, J. Crawford, J. Lee, R.B. Moore (*McGill U.*)
967. Beta decay branching ratio of ^{21}Na [active], S.J. Freedman (*UC Berkeley-LBNL*), P.A. Vetter (*Lawrence Berkeley Nat. Lab*), A.A. Kwiatkowski, R. Maruyama (*U. California, Berkeley*)
968. Ortho-para effect of muon catalyzed fusion in liquid deuterium [completed data-taking], N. Kawamura, A. Toyoda (*KEK*), K. Nagamine (*KEK-RIKEN-U.C. Riverside*), H. Imao (*U. Tokyo-KEK*), K. Ishida, Y. Matsuda, T. Matsuzaki (*RIKEN*)
969. Metamagnetic transitions and quantum critical behavior [active], S.R. Dunsiger, R.H. Heffner, G.D. Morris (*Los Alamos Nat. Lab*), D.E. MacLaughlin (*U. California, Riverside*), O.O. Bernal (*California State U.*), G.J. Nieuwenhuys (*U. Leiden*)

971. Precise measurement of the quadrupole moments of $^{20,21,25}\text{Na}$ [active], R. Baartman, J. Behr, P. Bricault, M. Dombisky, P. Jackson, P. Levy, M. Pearson (*TRIUMF*), M. Fukuda, K. Matsuta, M. Mihara, T. Minamisono, T. Nagatomo, M. Ogura, T. Sumikama (*Osaka U.*), R. Kiefl (*UBC*), K. Koshigiri (*Osaka Kyoiku U.*), K. Minamisono (*JSPS-TRIUMF*), M. Morita (*Josai Int. U.*)
972. Meson and quark effects in the nuclear β decay of ^{20}F [deferred], R. Baartman, J. Behr, P. Bricault, M. Dombisky, P. Jackson, P. Levy, M. Pearson (*TRIUMF*), M. Fukuda, K. Matsuta, M. Mihara, T. Minamisono, T. Nagatomo, M. Ogura, T. Sumikama (*Osaka U.*), R. Kiefl (*UBC*), K. Koshigiri (*Osaka Kyoiku U.*), K. Minamisono (*JSPS-TRIUMF*), M. Morita (*Josai Int. U.*)
973. Study of coexisting collective phases far from stability: systematic decay spectroscopy of the $N = 90$ isotones [active], J.M. Allmond, S. Dursun, D. Furse, W.D. Kulp, J.L. Wood (*Georgia Inst. Tech.*), E. Zganjar (*Louisiana State U.*), J. von Schwarzenberg (*U. Vienna*), D.J. Rowe (*U. Toronto*), K.S. Krane (*U. Oregon*), D. Bandyopadhyay, P.E. Garrett, G.F. Grinyer, C.E. Svensson (*U. Guelph*), R.A.E. Austin (*St. Mary's U.*), A. Andreyev, G.C. Ball, R.S. Chakrawarthy, G. Hackman, R. Kanungo, A.C. Morton, C.J. Pearson (*TRIUMF*), D. Cross, W. Mills, J.J. Ressler (*SFU*), J.J. Carroll, D. Gohlke, R. Propri, R. Wheeler (*Youngstown State U.*), G.A. Jones, P.M. Walker, S.J. Williams (*U. Surrey*)
974. μSR experiments on superconductivity and magnetism in the new layered oxide $\text{Na}_{0.35}\text{CoO}_2 \cdot y\text{H}_2\text{O}$ [active], C.R. Wiebe (*McMaster U.-Columbia U.*), S.J. Kim, G.M. Luke, G. MacDougall (*McMaster U.*), P. Russo, A. Savici, Y.J. Uemura (*Columbia U.*), J.E. Sonier (*SFU*)
975. Magnetism and superconductivity in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ and related cobalt oxides [active], W. Higemoto, R. Kadono, A. Koda, K. Ohishi (*KEK-IMSS*), S.R. Saha, H. Sakurai, K. Takada, E. Takayama-Muromachi (*NIMS, Japan*)
976. μSR study of strongly correlated electron behavior in filled skutterudite compounds [active], W. Higemoto, R. Kadono, A. Koda, K. Ohishi (*KEK-IMSS*), Y. Aoki, S.R. Saha, H. Sato, H. Sugawara (*Tokyo Metropolitan U.*)
977. Magnetism and superconductivity in spinel oxides [active], W. Higemoto, R. Kadono, A. Koda, K. Ohishi (*KEK-IMSS*), M. Isobe, Y. Ueda (*ISSP U. Tokyo*)
978. Magnetism in organic chiral compounds [active], W. Higemoto, R. Kadono, A. Koda, K. Ohishi (*KEK-IMSS*), H. Imai, K. Inoue (*IMS Okazaki Nat. Res. Inst.*)
979. Magnetism of equiatomic ternary uranium compounds [active], G.M. Kalvius (*Tech. U. Munich*), H. Nakotte (*New Mexico State U.*), D.R. Noakes, C.E. Stronach (*Virginia State U.*), R. Wäppling (*Uppsala U.*)
980. Quantum impurities in spin ladder compounds [active], I. Affleck (*Boston U.*), J. Brewer, R.F. Kiefl, W.A. MacFarlane (*UBC*), J. Chakhalian, Z. Salman (*TRIUMF*), S. Eggert (*Chalmers U.*), K. Kojima (*Tokyo U.*), Y.J. Uemura (*Columbia U.*)
981. Photoinduced magnetism in Prussian blue analogs [active], J. Chakhalian, Z. Salman (*TRIUMF*), R. Kiefl, A. MacFarlane, T. Parolin, D. Wang (*UBC*), K. Chow (*U. Alberta*), D. Leznoff, J. Sonier (*SFU*)
982. μSR study of the superferromagnetic transition in clinoatacamite [active], M. Hagihala, X.G. Zheng (*Saga U.*)
983. Direct measurement of astrophysical $^{11}\text{C}(p, \gamma)^{12}\text{N}$ reaction at DRAGON [active], Z.H. Li, W.P. Liu (*China Inst. of Atomic Energy*), J.M. D'Auria (*SFU*), L. Buchmann, D. Hutcheon, A. Laird, A. Olin, J. Rogers, C. Ruiz (*TRIUMF*), A.A. Chen (*McMaster U.*), J. Caggiano, A. Parikh, P. Parker (*Yale U.*), X.D. Tang (*Argonne Nat. Lab*)
984. Fast lifetime measurements with the 8π spectrometer and nuclear structure below $N = 82$ [active], J.A. Becker (*Lawence Livermore Nat. Lab*), H. Mach (*Uppsala U.*), C. Andreoiu, D. Bandyopadhyay, P.E. Garrett, G.F. Grinyer, B. Hyland, A. Phillips, M. Schumaker, C.E. Svensson (*U. Guelph*), J.C. Waddington (*McMaster U.*), G.C. Ball, R.S. Chakrawarthy, G. Hackman, A.C. Morton, C.J. Pearson (*TRIUMF*), W.D. Kulp, J.L. Wood (*Georgia Inst. Tech.*), E. Zganjar (*Louisiana State U.*), J. von Schwarzenberg (*U. Vienna*), F. Sarazin (*Colorado School of Mines*), J. Ressler (*SFU*), P.M. Jenneson, P.H. Regan, S.J. Williams (*U. Surrey*), R.A.E. Austin (*St. Mary's U.*)
985. Half-life and branching-ratio measurement of ^{18}Ne superallowed fermi β decay [active], A.N. Andreyev, G.C. Ball, P. Bricault, R.S. Chakrawarthy, G. Hackman, A.C. Morton, C.J. Pearson, M.B. Smith (*TRIUMF*), R.A.E. Austin (*St. Mary's U.*), J.R. Leslie (*Queen's U.*), F. Sarazin (*Colorado School of Mines*), C. Andreoiu, P. Finlay, P.E. Garrett, G.F. Grinyer, B. Hyland, A.A. Phillips, M.A. Schumaker, C.E. Svensson, J.J. Valiente-Dobón (*U. Guelph*), J.L. Wood (*Georgia Inst. Tech.*), E.F. Zganjar (*Louisiana State U.*), J.J. Daoud, S.J. Williams (*U. Surrey*)

76

114

116

986. Proton irradiation effects in advanced semiconductor technologies [active], P. Dodd, G. Hash, J. Schwank, M. Shaneyfelt (*Sandia Nat. Lab*), C. D'Hose, V. Ferlet-Cavroi, P. Paillet, J.-E. Sauvestre (*CEA, France*), E. Blackmore (*TRIUMF*)
987. Collinear resonant ionization spectroscopy near proton drip line [deferred], L. Blomeley, F. Buchinger, T. Cocolios, J.E. Crawford, S. Gulick, J.K.P. Lee, R.B. Moore (*McGill U.*), J. Dilling, P. Levy, M. Pearson (*TRIUMF*), G. Gwinner, K. Sharma (*U. Manitoba*), R. Thompson (*U. Calgary*), H. Schuessler (*TAMU, Texas*), J. Billowes, P. Campbell, B.W. Tordoff (*U. Manchester*), F. Ibrahim, F. Le Blanc, J. Sauvage, R. Sifi (*IPN Orsay*), J. Pinarid (*LAC Orsay*)
988. Lifetime measurements in the rare-earth neutron-rich region using FEST [active], J.J. Ressler (*Yale U.-SFU*), R.F. Casten, E.A. McCutchan, N.V. Zamfir (*Yale U.*), D.S. Brenner (*Clark U.*), J.M. D'Auria (*SFU*), G. Ball, G. Hackman (*TRIUMF*), P.E. Garrett (*Lawrence Livermore Nat. Lab*), J.L. Wood (*Georgia Inst. Tech.*), R.E.A. Austin, J. Waddington (*McMaster U.*), C. Svensson (*U. Guelph*), E.F. Zganjar (*U. Louisiana*), A.A. Hecht (*Argonne Nat. Lab*)
989. Astrophysical studies using ^{26}Al ground-state and isomeric beams [completed], C. Ruiz (*SFU-TRIUMF*), L. Buchmann, J.A. Caggiano, B. Davids, C. Davis, D.A. Hutcheon, A. Olin, D.F. Ottewell, G. Ruprecht, M. Trinczek, C. Vockenhuber (*TRIUMF*), A.A. Chen, C.V. Ouellet (*McMaster U.*), H. Crawford, J.M. D'Auria (*SFU*), L. Erikson, U. Greife, C.C. Jewett (*Colorado School of Mines*), J. José (*UPC/IEEC Barcelona*), J. Clark, C. Diebel, R. Lewis, A. Parikh, P. Parker, C. Wrede (*Yale U.*), L. Fogarty (*U. Ireland*), D. Frekers (*U. Münster*), M. Huyse (*Katholieke U. Leuven*), J. Pearson (*McMaster U.*)
990. Resonant elastic scattering of isomeric ^{26}Al on protons [active], C. Ruiz (*SFU-TRIUMF*), C. Angulo (*CRC Lowain-la-Neuve*), M. Aliotta, T. Davinson, A.S. Murphy, P.J. Woods (*U. Edinburgh*), R.E. Azuma, J.D. King (*U. Toronto*), L. Buchmann, B. Davids, P. Walden (*TRIUMF*), A. Chen, J. Pearson, C. Van Ouellet (*McMaster U.*), J.M. D'Auria (*SFU*), B.R. Fulton, D. Groombridge, A.M. Laird (*U. York*), F. Sarazin (*Colorado School of Mines*), A. Shotter (*TRIUMF-U. Alberta*)
991. Laser spectroscopic determination of the ^{11}Li charge radius [active], B. Bushaw (*Pacific Northwest Nat. Lab*), A. Dax (*PSI*), G.W.F. Drake (*U. Windsor*), G. Ewald, S. Götte, R. Kirchner, H.-J. Kluge, Th. Köhl, R. Sánchez, A. Wojtaszek (*GSI Darmstadt*), P. Bricault, J. Dilling, M. Domsby, J. Lassen, P. Levy, M. Pearson, E.J. Prime, V. Ryjov (*TRIUMF*), W. Nörtershäuser, C. Zimmermann (*U. Tübingen*), Z.-C. Yan (*U. New Brunswick*)
992. Lifetime of the 4.033 MeV state in ^{19}Ne [active], G.C. Ball, R. Churchman, B. Davids, G. Hackman, R. Kanningo, A.C. Morton, C.J. Pearson, C. Ruiz, I. Tanihata, P. Walden, S. Yen (*TRIUMF*), M. Chicoine, J.S. Forster, S. Gujrahi (*U. Montréal*), H. Leslie (*Queen's U.*), A.N. Andreyev, R.S. Chakrawarthy (*TRIUMF-U. Alberta*), M. Subramanian (*TRIUMF-UBC*), T.K. Alexander (*Deep River*), D. Howell, J.J. Ressler (*SFU*), J. José (*IUP/IEEC Barcelona*), H. Savajols (*TRIUMF-GANIL*), M.A. Schumaker (*U. Guelph*)
993. Coulomb excitation of neutron rich beams with TIGRESS and the Si array [active], R.A.E. Austin, A.A. Chen, J.C. Waddington (*McMaster U.*), F. Sarazin (*Colorado School of Mines*), C. Andreoiu, G.F. Grinyer, C.E. Svensson (*U. Guelph*), G.C. Ball, G.S. Hackman, M.B. Smith (*TRIUMF*), T. Drake (*U. Toronto*), P. Garrett (*Lawrence Livermore Nat. Lab*), J.J. Ressler (*SFU*), P.M. Walker (*U. Surrey*)
994. On the rp-process bottleneck at $A = 56$: Coulomb excitation of ^{58}Zn at ISAC-II [active], R.A.E. Austin, A.A. Chen, J.C. Waddington (*McMaster U.*), C. Andreoiu, C.E. Svensson (*U. Guelph*), G.C. Ball, B. Davids, G. Hackman (*TRIUMF*), J.J. Ressler (*SFU*), F. Sarazin (*Colorado School of Mines*)
995. An alternate approach to radioactive beam production for volatile elements: proof-of-principle [active], J.M. D'Auria, S. Lapi (*SFU*), K. Buckley, K. Jayamanna, T.J. Ruth (*TRIUMF*), C. Ruiz, M. Trinczek (*TRIUMF-SFU*)
996. Nova observables – ^{18}F abundance and the $^{18}\text{F}(p, \alpha)^{15}\text{O}$ reaction [active], T. Brown, S. Fox, B. Fulton, D. Groombridge, A.M. Laird (*U. York*), M. Aliotta, P. Davinson, A. Murphy, P. Woods (*U. Edinburgh*), C. Angulo (*CRC Lowain-la-Neuve*), L. Buchmann, B. Davids, C. Ruiz, A. Shotter, P. Walden (*TRIUMF*), J. José (*UPC/IEEC Barcelona*), F. Sarazin (*Colorado School of Mines*)
997. μSR study on the magnetic structures in $\text{Cu}_{1-x}\text{Li}_x\text{O}$ [active], T. Mori, X.G. Zheng (*Saga U.*), W. Higemoto, K. Nishiyama (*KEK-MSL*)
998. Muon spin relaxation and dynamic scaling in novel magnetic materials [active], D.E. MacLaughlin, L. Shu (*U. California, Riverside*), T. Kimura, J.L. Sarrao (*Los Alamos Nat. Lab*), O.O. Bernal (*Cal. State U., Los Angeles*), J.S. Kim, G.R. Stewart (*U. Florida*), N. Frederick, M.B. Maple, W.M. Yuhasz, (*U. California, San Diego*), R.H. Heffner (*JAEA Tokai*), G.D. Morris (*TRIUMF*)

65

79

80

82

118

999. Local magnetic properties in Pu and Pu-based alloys [active], B. Chung, M. Fluss (*Lawrence Livermore Nat. Lab*), R. Heffner, J. Lashley, G.D. Morris, J. Sarrao (*Los Alamos Nat. Lab*), D. MacLaughlin (*U. California, Riverside*)
1000. Measurements of the vortex core size in type-II superconductors [active], F.D. Callaghan, C. Kaiser, M. Laulajainen, J.E. Sonier (*SFU*), D. Bonn, J.H. Brewer, W.N. Hardy, R. Liang (*UBC*), G.M. Luke (*McMaster U.*), R.I. Miller (*TRIUMF*), 120
1001. Defect levels and μ^0 dynamics in III-V semiconductors [active], J.M. Gil, R.C. Vilao (*U. Coimbra*), K.H. Chow (*U. Alberta*), H. Bani-Salameh, B.E. Coss, B.R. Carroll, R.L. Lichti, (*Texas Tech. U.*) 122
1002. Knight shift measurements of dynamic spin systems [active], C.R. Wiebe (*McMaster U.–Columbia U.*), S.J. Kim, G.M. Luke, G. MacDougall, J. Rodriguez (*McMaster U.*), P. Russo, A.T. Savici, Y.J. Uemura (*Columbia U.*)
1003. μ SR in pure and diluted spin ice pyrochlore systems [active], I.M. Gat, P.L. Russo, A. Savici, Y.J. Uemura (*Columbia U.*), H. Dabkowska, G.M. Luke (*McMaster U.*), C.R. Wiebe (*Columbia U.–McMaster U.*), K. Ishida, Y. Maeno, S. Nakatsuji (*Kyoto U.*), P. Schiffer (*Pennsylvania State U.*), R.J. Cava (*Princeton U.*)
1004. Nuclear hyperfine interactions of the shallow muonium center in GaN [completed], K.H. Chow, A.N. MacDonald, B. Schultz (*U. Alberta*), R. Kadono, K. Shimomura (*KEK*), K. Mizuta, K. Ohishi (*NEC Corp.*), R.L. Lichti (*Texas Tech. U.*), B. Hitti (*TRIUMF*), R.F. Kiefl (*UBC*)
1005. Optically induced dynamics and site changes in group IV semiconductors [active], K.H. Chow, A.N. MacDonald, B. Schultz (*U. Alberta*), B. Hitti, Z. Salman (*TRIUMF*), R.F. Kiefl, W.A. MacFarlane (*UBC*)
1006. Magnetic properties of $RECrSb_3$ ($RE = La, Gd$) [active], K.H. Chow, I. Fan, A. Mar, A.V. Tkachuk (*U. Alberta*), W.A. MacFarlane (*UBC*), Z. Salman (*TRIUMF*) 123
1007. Equilibrium of $^{115}Cd^g$ and $^{115}Cd^m$ during the s-process [active], R.M. Clark, M. Cromaz, M.A. Deleplanque, M. Descovich, R.M. Diamond, P. Fallon, I.Y. Lee, A.O. Macchiavelli, E. Norman, E. Rodriguez-Vieitez, F.S. Stephens, D. Ward (*Lawrence Berkeley Nat. Lab*), A. Andreyev, G.C. Ball, R. Chakrawarthy, G. Hackman, A.C. Morton, C. Pearson, M. Smith (*TRIUMF*), C. Svensson, J.J. Valiente-Dobon (*U. Guelph*), P.E. Garrett (*Lawrence Livermore Nat. Lab*)
1008. Halo neutrons and the β -decay of ^{11}Li [active], J. Al-Khalili, P. Walker (*U. Surrey*), A. Andreyev, G. Ball, G. Hackman, D. Melconian, C. Morton, C. Pearson, R.S. Chakrawarthy, M. Smith (*TRIUMF*), P. Garrett (*Lawrence Livermore Nat. Lab*), C. Andreoiu, G. Grinyer, C. Svensson (*U. Guelph*), D. Kulp, J. Wood (*Georgia Inst. Tech.*), J. Leslie (*Queen's U.*), C. Mattoon, F. Sarazin (*Colorado School of Mines*), J. Waddington (*McMaster U.*), E. Zganjar (*Louisiana State U.*)
1009. Towards ^{100}Sn : Coulomb excitation of neutron-deficient Sn isotopes at ISAC-II [deferred], C. Andreoiu, P. Finlay, G.F. Grinyer, B. Hyland, A. Phillips, M. Schumaker, C.E. Svensson, J.J. Valiente-Dobón (*U. Guelph*), T. Drake (*U. Toronto*), P.E. Garrett (*Lawrence Livermore Nat. Lab*), A.N. Andreyev, G.C. Ball, G. Hackman, A.C. Morton, C.J. Pearson, M.B. Smith (*TRIUMF*), R.A.E. Austin (*St. Mary's U.*), A.A. Chen, J. Waddington (*McMaster U.*), C. Plettner (*Yale U.*), F. Sarazin (*Colorado School of Mines*)
1010. Hyperfine anomaly measurements in neutron deficient Francium isotopes [deferred], J.A. Behr, P. Bricault, M. Dombisky, K.P. Jackson, J. Lassen, P. Levy (*TRIUMF*), M.R. Pearson (*UBC–TRIUMF*), G. Gwinner (*U. Manitoba*), G.D. Sprouse (*SUNY Stony Brook*), B.A. Brown (*NSCL Michigan State*)
1011. μ SR study of $LiHo_xY_{1-x}F_4$ [active], A.A. Aczel, G.M. Luke, G.J. MacDougall, J.A. Rodriguez (*McMaster U.*), Y.J. Uemura (*Columbia U.*), M.J.P. Gingras, J.B. Kycia, J.A. Quilliam (*U. Waterloo*) 123
1012. Organic free radicals under hydrothermal conditions [active], J.-C. Brodovitch, B. McCollum, P.W. Percival (*SFU*), K. Ghandi (*Mount Allison U.*), I. McKenzie (*U. Stuttgart*) 125
1013. Superconductivity of β -pyrochlore oxides [active], R. Kadono, A. Koda, K.H. Satoh, S. Takeshita (*KEK-IMSS*), Z. Hiroi, J. Yamaura (*U. Tokyo*) 127
1014. Magnetism of oxygen adsorbed in carbon nanotubes [deferred], R. Kadono, A. Koda, K. Ohishi, S.R. Saha (*KEK-IMSS*), W. Higemoto (*JAERI*), Y. Maniwa, K. Matsuda (*Tokyo Metropolitan U.*)
1015. Unconventional behavior of field-induced quasiparticle excitation in novel superconductors [active], J. Akimitsu, S. Kuroiwa, H. Takagiwa, Y. Tomita, M. Yamazawa (*Aoyama Gakuin U.*), R. Kadono, A. Koda, K. Ohishi, S.R. Saha (*KEK-IMSS*), W. Higemoto (*JAERI*) 128
1016. Studies of muonium in isotopically enriched Si and Ge [active], K.H. Chow, A.N. MacDonald, B. Schultz (*U. Alberta*), P.J.C. King (*Rutherford Appleton Lab*), B. Hitti (*TRIUMF*), R.F. Kiefl (*UBC*), K. Itoh (*Keio U.*)
1017. Quasicrystals [active], Y. Ikedo, K. Mukai, H. Nozaki, J. Sugiyama (*Toyota Central R&D Labs Inc.*), T.J. Sato (*U. Tokyo*), E.J. Ansaldo, G.D. Morris (*TRIUMF*), J.H. Brewer (*UBC–TRIUMF*) 129

1018. Investigations of superconductivity in the ultra-2D limit [active], C.R. Wiebe (*McMaster U.–Columbia U.–NSEC*), P.L. Russo, Y.J. Uemura (*Columbia U.–NSEC*), G.M. Luke, G.J. MacDougall, J. Rodriguez, Z. Tang (*McMaster U.*), A.T. Savici (*Columbia U.*)
1019. High-field μ SR measurements of superconductivity in Hg-1201 [active], P.L. Russo, A.T. Savici, Y.J. Uemura (*Columbia U.*), C.R. Wiebe (*McMaster U.–Columbia U.*), G.M. Luke, G.J. Macdougall, J. Rodriguez, Z. Tang (*McMaster U.*), M. Greven (*Stanford U.*)
1020. Muonium reaction with halogen molecules, and consequent unconventional bound states [deferred], D.J. Arsenau (*TRIUMF*), S. Cottrell, S.F.J. Cox, C. Johnson (*Rutherford Appleton Lab*), D.G. Fleming, K. Ghandi, J. Valiani (*UBC*), U.A. Jayasooriya (*U. East Anglia*)
1021. Proton irradiation effects in advanced semiconductor technologies [active], P. Dodd, J. Felix, G. Hash, J. Schwank, M. Shaneyfelt (*Sandia Nat. Lab*), J. Baggio, C. D’Hose, V. Ferlet-Cavrois, P. Paillet (*CEA, France*), E. Blackmore (*TRIUMF*) 65
1022. The resonant radiative capture $^{12}\text{C}(^{16}\text{O},\gamma)^{28}\text{Si}$ reaction [completed data-taking], S. Courtin, F. Haas, M.-D. Salsac (*IReS Strasbourg*), C. Davis, D.A. Hutcheon (*TRIUMF*), R.G. Glover, D.G. Jenkins, P.E. Kent (*U. York*), J.E. Pearson (*McMaster U.*) 83
1023. A pilot study of fusion of halo nuclei: $^{11}\text{Li} + ^{70}\text{Zn}$ [active], Z. Huang, W. Loveland, B. Matteson, R. Naik, P. Sprunger, A.M. Vinodkumar (*Oregon State U.*), F. Liang, D. Shapira (*Oak Ridge Nat. Lab*), G. Ball, M. Dombisky, M. Trinczek (*TRIUMF*), J. D’Auria, J. Ressler, T. Ruth (*SFU*)
1024. $^{40}\text{Ca}(\alpha,\gamma)^{44}\text{Ti}$ for astrophysics [active], L. Buchmann, J. Caggiano, B. Davids, L. Fogarty, D.A. Hutcheon, D. Ottewell, M.M. Pavan, C. Ruiz, G. Ruprecht, M. Trinczek, C. Vockenhuber (*TRIUMF*), A.A. Chen, C.O. Ouellet, J. Pearson (*McMaster U.*), J.M. D’Auria (*SFU*), A. Hussein (*UNBC*), M. Paul (*Hebrew U.*), D. Frekers (*U. Münster*), W. Kutschera, A. Wallner (*U. Wien*) 84
1025. $^7\text{Be}+p$: elastic scattering [active], L. Buchmann, J. Caggiano, B. Davids, M. Pavan, G. Ruprecht, P. Walden (*TRIUMF*), D. Gigliotti (*UNBC*), A. Laird (*U. York*), J. Pearson (*McMaster U.*), C. Ruiz (*SFU*), J.M. Sparenberg (*U. Libre de Bruxelles*)
1026. Projectile fragmentation of Na isotopes on light targets: isotopic enhancement by N/Z [deferred], F. Gagnon-Moisan, J. Gauthier, F. Grenier, J. Moisan, R. Roy, C. St-Pierre, D. Thériault, A. Valée (*Laval U.*), A. Chbihi, J.P. Wieleczko (*GANIL*), M. Samri (*Kénitra, Ibn Tofail U.*)
1027. Measurement of the $^{22}\text{Na}(p,\gamma)$ reaction rate [active], P. Bricault, J. Caggiano, M. Dombisky, G. Hackman, D.A. Hutcheon, K. Jayamana, R. Keitel, R. Laxdal, M. Marchetto, D.F. Ottewell, J. Pearson, C. Ruiz, M. Trinczek, C. Vockenhuber (*TRIUMF*), H. Crawford, J.M. D’Auria, J.J. Ressler, A. Garcia, K. Snover, D. Storm (*U. Washington*), C. Deibel, A. Parikh (*Yale U.*), L. Fogarty (*Nat. U. Ireland, Maynooth*) 86
1028. Ultra-high precision decay measurements of the superallowed β -emitter ^{26m}Al [active], A. Andreyev, G.C. Ball, P. Bricault, R.S. Chakravarthy, G. Hackman, A.C. Morton, C. Pearson, M.B. Smith (*TRIUMF*), J.R. Leslie (*Queens U.*), R.A.E. Austin (*St. Mary’s U.*), J. Ressler (*SFU*), C. Andreoiu, P.E. Garrett, G.F. Grinyer, B. Hyland, A.A. Phillips, M.A. Schumaker, C.E. Svensson, J.J. Valiente-Dobon (*U. Guelph*), D. Melconian (*U. Washington*)
1030. Charged-particle channels in the β -decay of ^{11}Li [active], A. Andreyev, L. Buchmann, P. Capel, M. Huyse, R. Kanungo, T. Kirchner, A.C. Morton, J. Pearson, G. Ruprecht, P. Walden (*TRIUMF*), H. Fynbo, K. Riisager (*U. Aarhus*), J. Ponsaers, R. Raabe, P. Van Duppen (*Katholieke U. Leuven*), C. Mattoon, F. Sarazin (*Colorado School of Mines*), J.J. Ressler, C. Ruiz (*SFU*) 87
1031. Charged-particle exit channels from the $^{12}\text{C}+^{12}\text{C}$ fusion reaction at astrophysical energies [active], M. Aliotta, T. Davinson (*U. Edinburgh*), C.J. Barton, S.P. Fox, B.R. Fulton, A.M. Laird, R. Lewis, P. Mumby-Croft, K. Vaughan (*U. York*), L. Buchmann, J. Pearson, C. Ruiz, G. Ruprecht, A.C. Shotton, P. Walden (*TRIUMF*) 89
1032. Penetration depth and time reversal symmetry breaking in filled-skutterudite $\text{Pr}(\text{Os}_{1-x}\text{Ru}_x)_4\text{Sb}_{12}$ [active], D.E. MacLaughlin, L. Shu (*U. California, Riverside*), R.H. Heffner (*JAEA Tokai*), J.E. Sonier (*SFU*), O.O. Bernal (*U. California, Los Angeles*), G.D. Morris (*TRIUMF*), N. Frederick, M.B. Maple, W.M. Yuhasz (*U. California, San Diego*) 132
1033. Phase separation in the A-site ordered perovskite manganites [active], Y. Kawasaki, Y. Kishimoto, T. Ohno (*Tokushima U.*), R. Kadono, A. Koda, K. Ohishi, S.R. Saha (*KEK-MSL*), W. Higemoto (*JAERI*), T. Nakajima, Y. Ueda (*U. Tokyo*)
1034. One-dimensional cobalt oxide BaCoO_3 [active], Y. Ikedo, K. Mukai, H. Nozaki, J. Sugiyama (*Toyota Central R&D Labs. Inc.*), E.J. Ansaldo, G.D. Morris, P.L. Russo (*TRIUMF*), J.H. Brewer (*UBC—TRIUMF*), T.J. Sato (*U. Tokyo*) 134

1035. μ SR measurements of magnetism in $(\text{Ca,Sr})_2\text{RuO}_4$ in ambient and applied pressure [active], I.M. Gat-Malureanu, P.L. Russo, Y.J. Uemura (*Columbia U.*), A.T. Savici (*Brookhaven Nat. Lab*), C.R. Wiebe (*Brock U.*), G.M. Luke, G.J. MacDougall, J. Rodriguez, Z. Tang (*McMaster U.*), Y.V. Sushko (*U. Kentucky*), S.R. Julian (*U. Toronto*), E. Baggio-Saitovitch, H. Saitovitch (*CBPF, Rio*), J. Sereni (*CAB Bariloche, Argentina*), K. Ishida, Y. Maeno, S. Nakatsuji (*Kyoto U.*), F. Nakamura (*Hiroshima U.*), J. Arai, T. Goko (*Tokyo-Science U.*) 138
1036. β -NMR study of single molecule magnets films [active], R. Miller, Z. Salman (*TRIUMF*), R. Kiefl, A. MacFarlane (*UBC-TRIUMF*), M.D. Hussain, T. Keeler, A. Morello, T. Parolin, D. Wang (*UBC*), K. Chow (*U. Alberta*), D. Gatteschi, R. Sessoli (*U. Florence*)
1038. A μ SR study of orbitally ordered $\text{La}_4\text{Ru}_2\text{O}_{10}$ [active], R. Kiefl, R. Miller, Z. Salman (*TRIUMF*), P. Khalifah (*U. Massachusetts*), M.D. Hussain, T.A. Keeler, A. MacFarlane, T. Parolin, H. Saadaoui, D. Wang (*UBC*)
1039. A μ SR study of ferromagnetic superconductors at low temperatures [active], R. Kiefl, R. Miller, Z. Salman (*TRIUMF*), M.D. Hussain, T.A. Keeler, A. MacFarlane, T. Parolin, H. Saadaoui, D. Wang (*UBC*)
1040. Light-induced magnetism in manganite thin films studied with β -NMR [active], R. Kiefl, R. Miller, Z. Salman (*TRIUMF*), M.D. Hussain, T.A. Keeler, A. MacFarlane, T. Parolin, H. Saadaoui, D. Wang (*UBC*)
1041. β NMR search for spontaneous magnetism near the surface of unconventional superconductors [active], J.H. Brewer, M.D. Hossain, R.F. Kiefl, W.A. MacFarlane, T.J. Parolin, H.X. Saadaoui, D. Wang (*UBC*), R.I. Miller, G.D. Morris, Z. Salman (*TRIUMF*), K.H. Chow (*U. Alberta*), R.H. Heffner (*Los Alamos Nat. Lab.*), L.H. Greene (*U. Illinois*), G.M. Luke (*McMaster U.*), Y. Maeno (*Kyoto U.*), Z. Yamani (*AECL Chalk River*) 139
1042. β NMR investigation of finite size effects in metallic thin films and nanoparticle arrays [active], M.D. Hossain, T.A. Keeler, R.F. Kiefl, W.A. MacFarlane, T.J. Parolin, H.X. Saadaoui, D. Wang (*UBC*), G.D. Morris, Z. Salman (*TRIUMF*), K.H. Chow (*U. Alberta*), J. Chakhalian (*U. Arkansas*) 140
1043. Quantum diffusion of muonium atoms in insulators and semiconductors: localization vs. band-like propagation [active], R.F. Kiefl (*UBC-TRIUMF*), J.H. Brewer, S. Stubbs (*UBC*), R.L. Lichti (*Texas Tech. U.*), V.G. Storchak (*Kurchatov Inst.*), S.P. Cottrell (*Rutherford Appleton Lab*), D.G. Eshchenko (*Zurich U.*)
1044. Muon spin relaxation studies of dilute magnetic semiconductors: spintronics via μ^+ SR [active], J.H. Brewer, S. Stubbs (*UBC*), Y.J. Uemura (*Columbia U.*), R.L. Lichti (*Texas Tech. U.*), B.A. Aronson, V.G. Storchak (*Kurchatov Inst.*), S.P. Cottrell (*Rutherford Appleton Lab*), D.G. Eshchenko (*Zurich U.*), A. Varnavsky (*MEPhi*), H. Luetkens, E. Morenzoni (*PSI*), S.F. Marenkin (*IIGCh*)
1046. Magnetic transitions in a new geometric frustrated system of $\text{M}_2\text{X}(\text{OH})_3$ [M = Cu, Co, Ni, Mn, Fe, etc.; X = Cl, Br, I] [active], T. Gyotoku, M. Hagihara, Y. Ishiwata, M. Mizutani, H. Ohtsubo, T. Torii, X.G. Zheng (*Saga U.*) 116
1047. Magnetic correlations and superconductivity in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ [active], A. Koda, R. Kadono, K.H. Satoh (*KEK-IMSS*), K. Ishida (*Kyoto U.*), M. Fujita, K. Yamada (*Tohoku U.*), W. Higemoto, K. Ohishi (*JAERI*) 141
1048. μ SR study of spin-1/2 spin liquids and singlets [active], A.A. Aczel, P.L. Russo, Y.J. Uemura (*Columbia U.*), G.M. Luke, G.J. MacDougall, J.A. Rodriguez (*McMaster U.*), C.R. Wiebe (*Brock U.*)
1049. Spin state transition in RECoO_3 (RE = La, Pr, Nd and Sm) [active], E.J. Ansaldo, G.D. Morris (*TRIUMF*), J.H. Brewer, S. Stubbs (*UBC*), H. Nozaki, J. Sugiyama (*Toyota Central R&D Labs*), H. Ikuta, U. Mizutani, T. Takami (*Nagoya U.*)
1050. Lithium battery materials $\text{LiCo}_{1-y}\text{Ni}_y\text{O}_2$ with $0 \leq y \leq 1$ [active], E.J. Ansaldo, G.D. Morris (*TRIUMF*), J.H. Brewer, W.A. MacFarlane (*UBC*), Y. Ikedo, K. Mukai, H. Nozaki, J. Sugiyama (*Toyota Central R&D Labs*), K. Chow (*U. Alberta*), T.J. Sato (*U. Tokyo*) 143
1051. Muonium and muoniated free radical formation and reactivity in ionic liquids [active], K. Ghandi, A. Wang (*UBC*), B. Hitti, Z. Salman (*TRIUMF*), J. Clyburne (*SFU*)
1052. Crossover from itinerant ferromagnet to correlated paramagnet: μ SR study in MnSi and $(\text{Sr,Ca})\text{RuO}_3$ [active], I. Gat-Malureanu, P.L. Russo, Y.J. Uemura (*Columbia U.*), G.M. Luke, G.J. MacDougall, J.A. Rodriguez (*McMaster U.*), C.R. Wiebe (*Brock U.*), J. Arai, T. Goko (*Tokyo Science U.*), A.T. Savici (*Brookhaven Nat. Lab.*), Y.V. Sushko (*U. Kentucky*), S.R. Julian (*University of Toronto*), E. Baggio-Saitovitch, H. Saitovitch (*CBPF, Rio*), J. Sereni (*CAB Bariloche, Argentina*), K. Ishida, Y. Maeno, S. Nakatsuji, K. Yoshimura (*Kyoto U.*), F. Nakamura (*Hiroshima U.*), P. Boeni, C. Pfleiderer (*Tech. U. Munich*) 138
1053. μ SR Studies of TiOCl and $(\text{Ti,Sc})\text{OCl}$ [active], T. Imai, G.M. Luke, G.J. MacDougall, F.L. Ning, J.A. Rodriguez (*McMaster U.*), S.R. Saha (*KEK-MSL*), F.C. Chou (*MIT*)
1054. Study of the β -decay of halo nucleus ^{14}Be [active], A. Andreyev, G. Ball, G. Hackman, R. Kanungo, A.C. Morton, C.J. Pearson, S.C. Ravuri (*TRIUMF*), C. Andreoiu, P.E. Garrett, G.F. Grinyer, R. Grzywacz, M.A.

- Schumaker, C.E. Svensson (*U. Guelph*), J. Al-Khalili, P.M. Walker (*U. Surrey*), C. Mattoon, F. Sarazin (*Colorado School of Mines*), J. Waddington (*McMaster U.*), D.W. Kulp, J.L. Wood (*Georgia Tech. Inst.*), R.A.E. Austin (*St. Mary's U.*), J.R. Leslie (*Queen's U.*), D.G. Melconian (*U. Washington*), J.A. Becker, C.Y. Wu (*Lawrence Livermore Nat. Lab*), H. Savajols (*GANIL*)
1055. Measurement of $^{11}\text{Li}(p,t)^9\text{Li}$ reactions at 1.6A and 6A MeV [active], L. Buchmann, B. Davids, R. Kanungo, A. Shotter, P. Walden (*TRIUMF*), R.V.F. Janssens, M. Notani, K.E. Rehm, G. Savard, J.P. Schiffer, I. Tanihata (*Argonne Nat. Lab*), W. Mittig, P. Roussel-Chomaz, H. Savajols (*GANIL*)
1056. Precise determination of the ^8Li valence neutron ANC: testing mirror symmetry and the ANC method in astrophysics [active], L. Buchmann, J. Caggiano, B. Davids, R. Kanungo, C.J. Pearson, C. Ruiz, G.O. Ruprecht, A. Shotter, P. Walden (*TRIUMF*), M. Subramanian (*UBC*), N. Timofeyuk (*U. Surrey*), D. Howell (*SFU*)
1057. Investigation on the ground state structure in the mirror pair ^9C - ^9Li [active], A. Andreyev, G. Ball, L. Buchmann, B. Davids, G. Hackman, R. Kanungo, C.J. Pearson, C. Ruiz, G.O. Ruprecht, A. Shotter, P. Walden (*TRIUMF*), J.P. Schiffer, I. Tanihata (*Argonne Nat. Lab*)
1058. Coulomb excitation of ^{21}Na [active], G. Ball, C. Barbieri, G. Hackman, R. Henderson, A.C. Morton, C.J. Pearson (*TRIUMF*), C. Andreoiu, D. Bandyopadhyay, P.E. Garrett, G.F. Grinyer, B. Hyland, A.A. Phillips, M.A. Schumaker, C.E. Svensson (*U. Guelph*), C. Mattoon, F. Sarazin (*Colorado School of Mines*), J. Waddington (*McMaster U.*), J.J. Ressler (*SFU*), R.A.E. Austin (*St. Mary's U.*), M.P. Carpenter (*Argonne Nat. Lab*), T.E. Drake (*U. Toronto*)
1059. Delayed γ spectroscopy of neutron-rich ^{80}Ge [active], A. Andreyev, G. Ball, R.S. Chakrawarthy, G. Hackman, R. Kanungo, A.C. Morton, C.J. Pearson (*TRIUMF*), C. Andreoiu, D. Bandyopadhyay, P.E. Garrett, A.A. Phillips, C.E. Svensson (*U. Guelph*), J. Waddington (*McMaster U.*), N. Hoq, J.J. Ressler (*SFU*), R.A.E. Austin (*St. Mary's U.*)
1060. Coulomb excitation of neutron rich neon beams with TIGRESS, the Si CD array and the Si barrel array [active], A. Andreyev, G. Ball, G. Hackman, R. Kanungo, A.C. Morton, C.J. Pearson (*TRIUMF*), B.R. Fulton (*U. York*), C. Andreoiu, D. Bandyopadhyay, P.E. Garrett, G.F. Grinyer, B. Hyland, A.A. Phillips, M.A. Schumaker, C.E. Svensson (*U. Guelph*), A.A. Chen, L. Watters (*McMaster U.*), C. Mattoon, F. Sarazin (*Colorado School of Mines*), J.J. Ressler (*SFU*), R.A.E. Austin, A.F. Chaffey (*St. Mary's U.*), C.J. Barton (*U. York*), J.A. Becker, C.Y. Wu (*Lawrence Livermore Nat. Lab*), T.E. Drake (*U. Toronto*), D. Cline (*U. Rochester*)
1061. Effect of ortho-para ratio on the muon catalyzed fusion in gas/liquid/solid deuterium [active], K. Ishida (*Kyoto U.*), F. Nakamura (*Hiroshima U.*), H. Imao (*U. Tokyo-KEK*), M. Iwasaki, Y. Matsuda, T. Matsuzaki (*RIKEN*), N. Kawamura, K. Nagamine, P.E. Strasser, A. Toyoda (*KEK*),
1062. Proton irradiation effects in advanced semiconductor technologies [active], P. Dodd, J. Felix, G. Hash, J.R. Schwank, M. Shaneyfelt (*Sandia Nat. Labs*), J. Baggio, C. D'Hose, V. Ferlet-Cavrois, P. Paillet (*CEA*), E.W. Blackmore (*TRIUMF*)
1063. Pairing correlations in ^{11}Li studied with neutron pair transfer reactions [active], G. Ball, G. Hackman, M. Pavan (*TRIUMF*), P.E. Garrett, C.E. Svensson (*U. Guelph*), R.M. Clark, M. Cromaz, M.A. Deleplanque, P. Fallon, I.Y. Lee, A.O. Macchiavelli, E. Sinha, F.S. Stephens, D. Ward, M. Wiedeking (*Lawrence Berkeley Nat. Lab*), E. Rodriguez-Vieitez (*UCB*),
1064. Excited states in the Ca isotopes towards “doubly-magic” ^{54}Ca : beta decay of $^{51,52,53}\text{K}$ [active], A. Andreyev, G. Ball, G. Hackman, A.C. Morton, C.J. Pearson, S.C. Ravuri (*TRIUMF*), D. Bandyopadhyay, P.E. Garrett, G.F. Grinyer, B. Hyland, M.A. Schumaker, C.E. Svensson (*U. Guelph*), J. Waddington (*McMaster U.*), J.J. Ressler (*SFU*), R.A.E. Austin (*St. Mary's U.*), M.P. Carpenter, R.V.F. Janssens, S. Zhu (*Argonne Nat. Lab*), R. Broda, B. Fornal (*Niewodniczanski Inst.*), P. Mantica, P. Pereira, J. Pinter, J. Stoker (*Michigan State U.*)
1066. Electron capture branching ratios for the odd-odd intermediate nuclei in double-beta decay using TITAN [active], J. Caggiano, P.P.J. Delheij, J. Dilling, D.A. Hutcheon, K.P. Jackson, S. Yen (*TRIUMF*), I. Tanihata (*Argonne Nat. Lab*), H. Dahmen, D. Frekers, E. Grewe, S. Hollstein, V. Pilipenko, J. Thiess (*U. Munster*), J. Suhonen (*U. Jyvaskyla*), H. Ejiri (*RCNP Osaka*)
1067. Projectile fragmentation of Na isotopes on light targets: isotopic enhancement by N/Z [active], R. Roy (*Laval U.*)
1068. β -decay study of light $^{69,70,71}\text{Kr}$ nuclei [active], D. Bandyopadhyay, P. Finlay (*U. Guelph*)
1069. Investigation on halo features and structure of levels in ^{12}Be [active], R. Kanungo (*TRIUMF*)
1070. Upgrade of $^{38\text{m}}\text{K}$ β - nu correlation [active], J.A. Behr, P. Bricault, M. Domsbky, C. Höhr, K.P. Jackson, M.R. Pearson (*TRIUMF*), R. Pitcairn, D. Roberge (*UBC*), A. Gorelov (*SFU*), G. Gwinner (*U. Manitoba*), D. Ashery (*Tel Aviv U.*), F. Glück (*U. Budapest*), D. Melconian (*U. Washington*)

1071. Measurement of the $^{25}\text{Al}(p, \gamma) ^{26}\text{Si}$ reaction rate [active], J. Clark, C. Deibel, A. Parikh, P. Parker, C. Wrede (*Yale U.*), J.A. Caggiano (*TRIUMF*), R. Lewis (*U. York*), A. Chen (*McMaster U.*), J. D'Auria (*SFU*)
1072. Study of the decay $\pi \rightarrow e\nu$ [active], J. Hu, L. Kurchaninov, G.M. Marshall, J.L. Mildenerger, M. Nozar, T. Numao, A. Olin, R. Poutissou, F. Retiere, V. Selivanov, A. Sher (*TRIUMF*), D.A. Bryman, P. Gumplinger (*UBC*), M. Aoki (*Toyota Central R&D Labs*), J. Comfort (*Arizona State U.*), M.S. Dixit (*Carleton U.*), S. Kettell, T. Krupovniks, L. Littenberg, W. Marciano (*Brookhaven Nat. Lab*), Y. Kuno (*Osaka U.*), M. Ramsey-Musolf (*California Inst. Tech*)
1073. High accuracy mass measurements for superallowed nuclear β -decay emitters [active], G. Ball, P. Bricault, J. Caggiano, J. Dilling, P.P.J. Delheij, M.R. Pearson, V. Ryjgov, M.B. Smith, J.V. Vaz, (*TRIUMF*), L. Bromley, F. Buchinger, J. Crawford, J. Lee, B. Moore (*McGill U.*), M. Froese, G. Gwinner, Z. Ke (*U. Manitoba*), M. Brodeur (*UBC*)
1074. Ground state mass determination of the halo nucleus ^{11}Li [active], P. Bricault, P.P.J. Delheij, J. Dilling, M.R. Pearson, V. Ryjgov, M.B. Smith, J.V. Vaz (*TRIUMF*), C. Mattoon, M. Porter-Peden, F. Sarazin (*Colorado School of Mines*), L. Bromley, F. Buchinger, J. Crawford, J. Lee, B. Moore (*McGill U.*), G. Gwinner, Z. Ke (*U. Manitoba*), M. Brodeur (*UBC*)
1075. Shells evolution in neutron-rich sd-shell nuclei with N near 20 [active], G. Ball, G. Hackman (*TRIUMF*), P.E. Garrett, C.E. Svensson (*U. Guelph*), J. Waddington (*McMaster U.*), J.J. Ressler (*SFU*), R.A.E. Austin (*St. Mary's U.*), J.A. Becker, R. Macri, C.Y. Wu (*Lawrence Livermore Nat. Lab*), T.E. Drake (*U. Toronto*), D. Cline (*U. Rochester*)
1076. The $^{17}\text{O}(p, \gamma)^{18}\text{F}$ reaction and ^{18}F abundance in novae [active], U. Greife (*Colorado School of Mines*), J.M. D'Auria (*SFU*), A.A. Chen, J. Chen, K. Setoodehnia, C. Van Ouellet (*McMaster U.*), L. Buchmann, J. Caggiano, B. Davids, D.A. Hutcheon, M. Pavan, J.E. Pearson, C. Ruiz, G.O. Ruprecht, M.C. Trinczek, C. Vockenhuber (*TRIUMF*), A.M. Laird (*U. York*), A. Hussein (*UNBC*), A. Parikh (*Yale U.*)
1078. Spectroscopy of ^{10}Li by a new technique [active], G. Ball, L. Buchmann, R.S. Chakrawarthy, G. Hackman, R. Kanungo, A.C. Morton, G.O. Ruprecht, P. Walden (*TRIUMF*), F. Sarazin (*Colorado School of Mines*), W. Mittig, P. Roussel-Chomaz, H. Savajols (*GANIL*), M. Chartier (*U. Liverpool*), H. Jeppesen (*ISOLDE*), C.E. Demonchy (*CENBG Bordeaux*), R. Lemon (*CCLRC Daresbury*), D. Cortinia-Gil (*U. Santiago*)
1079. Spin-liquid state in the square-lattice antiferromagnet $(\text{CuCl})\text{LaNb}_2\text{O}_7$ and related compounds [active], P.L. Russo, Y.J. Uemura (*Columbia U.*), S. Dunsiger, G.M. Luke, G.J. MacDougall, J.A. Rodriguez (*McMaster U.*), A.T. Savici (*Brookhaven Nat. Lab*), H. Kageyama, N. Oba, H. Tsujimoto, J. Yasuda (*Kyoto U.*)
1080. Full phase diagram of Na_xCoO_2 [active], E.J. Ansaldo, G.D. Morris (*TRIUMF*), J.H. Brewer, S. Stubbs (*UBC*), J. Akimitsu (*Aoyama U.*), Y. Ikedo, K. Mukai, H. Nozaki, J. Sugiyama (*Toyota Central R&D Labs*), C. Michioka, K. Yoshimura (*Kyoto U.*), A.T. Boothroyd (*Oxford U.*), T. Fujii (*U. Tokyo*)
1081. Electronic structure of hydrogen isotopes in sodium alanate [active], R. Kadono (*KEK-MSL*), A. Koda, K. Nishiyama, K. Shimomura (*KEK-IMSS*) C.M. Jensen (*U. Hawaii, Manoa*), K. Satoh (*Saitama U.*), E. Akiba (*Energy Tech. Res. Inst.*), M. Kuba (*U. Hawaii*)
1082. Muonium defect energies in SiGe alloys [active], K.H. Chow (*U. Alberta*), B.R. Carroll, B.E. Coss, R.L. Lichti (*Texas Tech. U.*), B. Hitti (*TRIUMF*), P.J.C. King (*Rutherford Appleton Lab*)
1083. Static and dynamic properties of multipoles in f -electron systems [active], W. Higemoto (*JAERI*), R.H. Heffner (*Los Alamos Nat. Lab*), K. Ohishi (*KEK-MSL*), T. Ito (*Japan Atomic Energy Agency*), N. Nishida (*Tokyo Inst. Tech.*), T. Onimaru (*U. Tokyo*), Y. Aoki, D. Kikuchi, H. Sato (*Tokyo Metropolitan U.*)
1084. Searching hidden magnetic order of the pseudogap state of the 214 cuprates by μSR and neutron scattering [active], I. Gat-Malureanu, P.L. Russo, Y.J. Uemura (*Columbia U.*), S. Dunsiger, G.M. Luke, G.J. MacDougall, J.A. Rodriguez (*McMaster U.*), C.R. Wiebe (*Brock U.*), A.T. Savici (*Brookhaven Nat. Lab*), T. Ito (*Japan Atomic Energy Agency*)
1085. μSR study of unconventional organic superconductor κ -(BEDT-TTF) $_4\text{Hg}_{2.89}\text{Br}_8$ [active], W. Higemoto (*JAERI*), M. Fujita (*IMR Tohoku U.*), T. Ito (*Japan Atomic Energy Agency*), K. Satoh, H. Taniguchi (*Saitama U.*) K. Nishiyama (*KEK-IMSS*)

*deceased